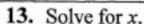


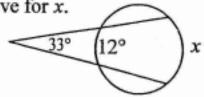
Lesson 20: Circles: Tangents and Secants

<u>Directions:</u> Solve each problem and use a pencil to DRAW the object that corresponds with your answer. SHOW YOUR STEPS!!!

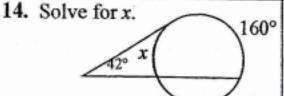
1 Salar for your answer. SHOW YOUR STEPS!!!		
1. Solve for x.	2. Solve for x.	3. Solve for x.
$\frac{5}{x}$	$\frac{12}{3x-6}$	10x-24
(a) If $x = 5$ draw the following leather helmet on the head. (b) If $x = 25$ draw the following leather	(a) If $x = 12$ draw the following goggles.	(a) If $x = 4$ draw the following eyes inside the goggles. (b) If $x = 6$ draw the
helmet on the head. 4. Perimeter =	(b) If $x = 6$ draw the following goggles.	following eyes inside the goggles.
Termicier –	5. Perimeter =	6. Solve for x.
8 12	15 6 11	30° x 50°
(a) If $P = 40$ draw the following eyebrows.	(a) If $P = 68$ draw the following nose. (b) If $P = 66$ draw the following nose.	(a) If $x = 10^{\circ}$ draw the following smile. (b) If $x = 40^{\circ}$ draw the following smile.
7. Solve for x . 60°	8. Solve for x.	O Colve for
15°	70° 40° x	80°
(a) If $x = 22.5^{\circ}$ draw a scar on one arm. (b) If $x = 37.5^{\circ}$ draw a scar on the face.	(a) If $x = 10^{\circ}$ draw the following shoulder straps on the shirt. (b) If $x = 55^{\circ}$ draw the following shoulder straps	(a) If $x = 40^{\circ}$ draw the following large parachute above the head. (b) If $x = 20^{\circ}$ draw the following large parachute
10. Solve for x.	on the shirt.	above the head.
25° 85°	11. Solve for x . 42° 120°	12. Solve for x. 260°
(a) If $x = 30^{\circ}$ draw straight lines to attach the parachute to the back of the shirt. (b) If $x = 55^{\circ}$ draw wavy lines to attach the parachute to the back of the shirt.	(a) If $x = 81^{\circ}$ draw TWO birds on the LEFT side of the picture. (b) If $x = 39^{\circ}$ draw TWO clouds on the LEFT side of the picture.	(a) If $x = 180^{\circ}$ draw THREE birds on the RIGHT side of the picture. (b) If $x = 80^{\circ}$ draw THREE clouds on the RIGHT side of the picture.

Directions: Solve each problem and COLOR the object that corresponds with your answer. SHOW YOUR STEPS!!!





- (a) If $x = 22.5^{\circ}$ color the leather helmet gray.
- (b) If $x = 78^{\circ}$ color the leather helmet brown.

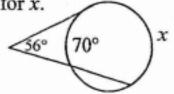


- (a) If $x = 76^{\circ}$ color the eyes green.
- (b) If $x = 118^{\circ}$ color the eyes blue.

(a) If x = 6 color the face, neck,

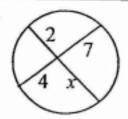
(b) If x = 18 color the face, neck,

15. Solve for x.

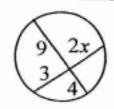


- (a) If $x = 126^{\circ}$ color the goggles
- (b) If $x = 182^{\circ}$ color the goggles brown.

Solve for x.

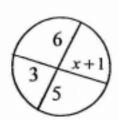


Solve for x.



- (a) If x = 4 outline the eyebrows
- (b) If x = 8 outline the eyebrows in red.

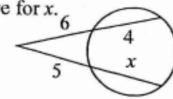
- (a) If x = 28 color the nose pink.
- (b) If x = 14 color the nose apricot.
- Solve for x.



- (a) If x = 10 outline the nose in
- (b) If x = 9 outline the nose in black.

and arms pink. 20. Solve for x.

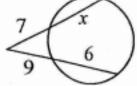
and arms apricot.



- (a) If x = 7 outline the mouth in
- (b) If $x = \frac{24}{5}$ outline the mouth in red.

Solve for x.

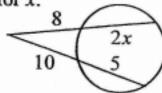
18. Solve for x.



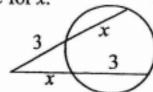
- (a) If $x = \frac{54}{7}$ outline the scar in red.
- (b) If $x = \frac{86}{7}$ outline the scar in black.

Solve for x.

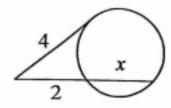
orange.



Solve for x.

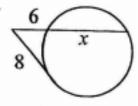


24. Solve for x.

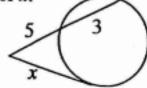


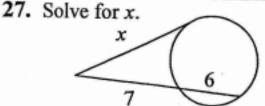
- (a) If $x = \frac{25}{8}$ color the shoulder straps red.
- (b) If $x = \frac{43}{8}$ color the shoulder straps brown.
- (a) If x = 1 color the shirt yellow.
- (b) If x = 3 color the shirt green.
- (a) If x = 6 color the parachute yellow, blue, and red.
- (b) If x = 2 color the parachute pink and green.

Solve for x.



Solve for x.





- (a) If $x = \frac{14}{3}$ outline the parachute and its lines in black.
- (b) If $x = \frac{4}{3}$ outline the parachute and its lines in purple.
- (a) If $x = \sqrt{15}$ color the clouds
- (b) If $x = 2\sqrt{10}$ outline the clouds in black, but do not color them.
- (a) If $x = \sqrt{91}$ color the rest of the background blue.
- (b) If $x = \sqrt{42}$ leave the rest of the background gray.