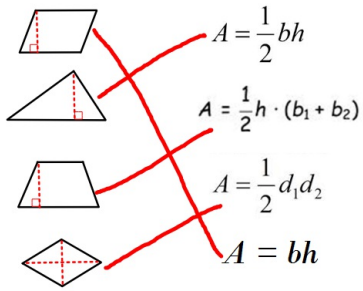
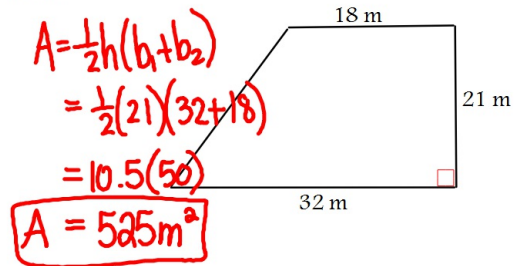


11.1 - 11.2 Review

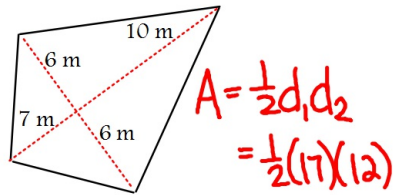
1. Match the picture with the correct formula that would be used to find the area.



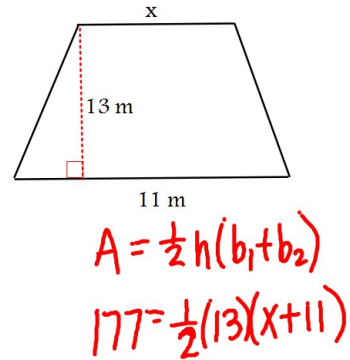
2. Find the area.



3. Find the area.

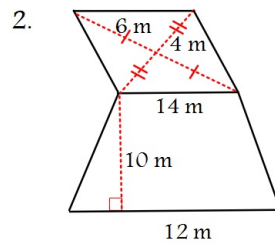
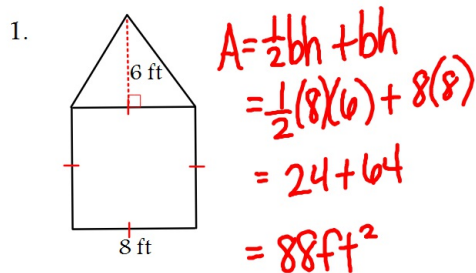


4. Find x. Area = 177 m²

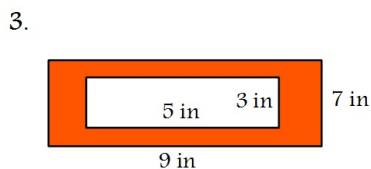


11.1 - 11.2 Review

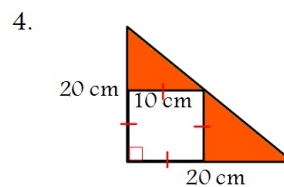
Find the area of each figure.



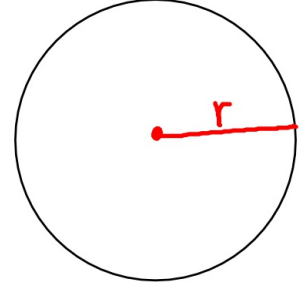
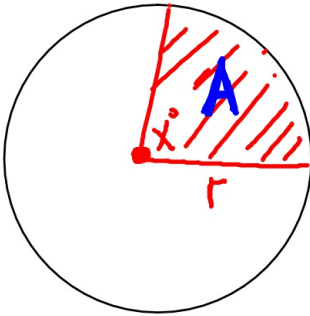
Find the area of the shaded region .



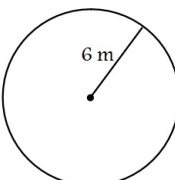
$A = bh_{\text{big}} - bh_{\text{small}}$
 $= 9(7) - 5(3)$
 $A = 48\text{in}^2$

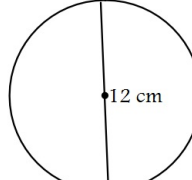


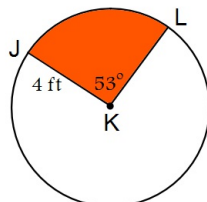
p. 798 11.3 Areas of Circles and Sectors

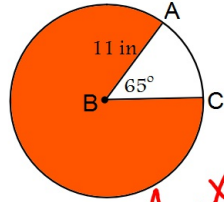
<p>Area of a Circle is equal to π times the square of the <u>radius</u>.</p> $A = \pi r^2$	
<p>Sector of a circle is a region of a <u>circle</u> bounded by a <u>central</u> angle and its intercepted <u>major</u> or <u>minor</u> arc.</p> <p>Area of a Sector</p> $A = \frac{x}{360} \cdot \pi r^2$	

Example 1. Find the area of each circle or shaded sector. Round to the nearest tenth if necessary.

1.  $A = \pi r^2 = \pi(6)^2 = 113.1 \text{ m}^2$

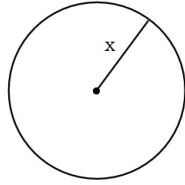
2.  $A = \pi r^2 = \pi(6)^2 = 113.1 \text{ cm}^2$

3.  $A = \frac{x}{360} \cdot \pi r^2 = \frac{53}{360} \cdot \pi(4)^2 = 7.4 \text{ ft}^2$

4.  $A = \frac{x}{360} \cdot \pi r^2 = \frac{65}{360} \cdot \pi(11)^2 = 311.5 \text{ in}^2$

Example 2: Find x.

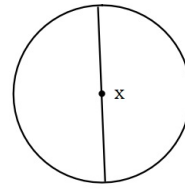
1. Area = 95 cm^2



$$\sqrt{95 \div \pi}$$

$$\begin{aligned} A &= \pi r^2 \\ 95 &= \pi x^2 \\ \frac{95}{\pi} &= \frac{\pi x^2}{\pi} \\ \sqrt{\frac{95}{\pi}} &= \sqrt{x^2} \\ x &= 5.5 \text{ cm} \end{aligned}$$

2. Area = 74 ft^2



3. Find the radius of a circle with an area of 58 square inches.

4. Find the diameter of a circle with an area of 94 square meters.

$$\begin{aligned} A &= \pi r^2 \\ 94 &= \pi x^2 \\ x &= 5.5 \text{ (radius)} \\ d &= 2(5.5) = 11 \text{ m} \end{aligned}$$