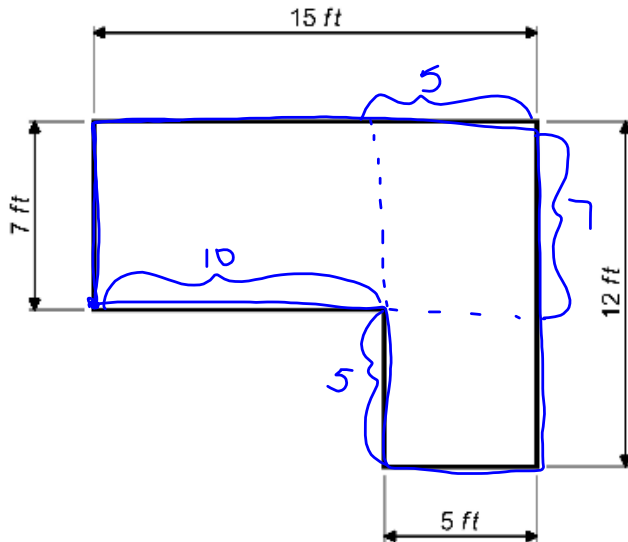


DO NOW

A chicken coop is being made in the shape shown below with the dimensions shown. If fencing must be placed on each side of the pen and it costs \$2.50 per foot, how much will it cost to enclose this pen?



$$P = 5 + 10 + 7 + 15 + 12 + 5$$

$$P = 54 \text{ ft}$$

$$54(2.50)$$

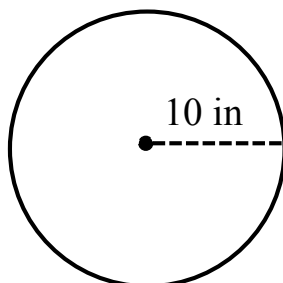
$$\boxed{\$135}$$

Nov 23-7:07 AM

The perimeter of a circle is called the circumference

$$C = 2\pi r \text{ or } C = \pi d$$

Find the circumference of the circle



a) In terms of π

$$r = 10$$

$$d = 20$$

$$C = \pi d$$

$$\boxed{C = 20\pi}$$

b) To the nearest hundredth

$$C = 62.83185\dots$$

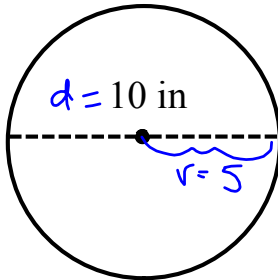
$$\boxed{62.83}$$

Nov 23-8:13 AM

Area of a Circle

$$A = \pi r^2$$

Find the area of the circle



a) In terms of π

$$A = \pi r^2$$

$$A = \pi (5)^2$$

$$A = 25\pi$$

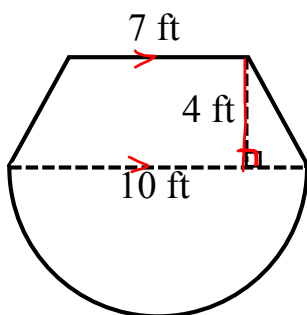
b) To the nearest hundredth

$$A = 78.539816$$

$$78.54$$

Feb 7-9:34 AM

To the nearest tenth of an ~~inch~~^{foot}, find the ~~area~~^{area} of the patio below:



$$A = 73.2699\dots$$

$$A = 73.3 \text{ ft}^2$$

$$A = \frac{1}{2}(b_1 + b_2) \cdot h$$

$$A = \frac{1}{2}(7 + 10) \cdot 4$$

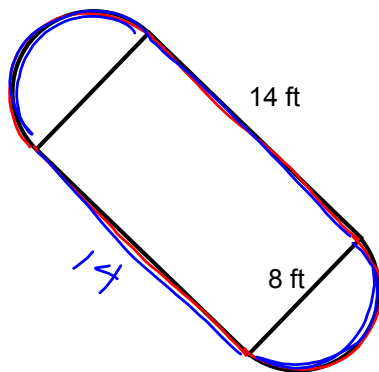
$$A = 34$$

$$A = \frac{\pi r^2}{2} \text{ or } \frac{1}{2}\pi r^2$$

$$A = \frac{\pi (5)^2}{2} = 39.2699\dots$$

Nov 25-10:02 AM

The garden pictured below is composed of a rectangle and two semicircles. Fencing is to be put around this garden. How many feet of fencing would be needed? Leave your answer in terms of π .



$$C = \pi d$$

$$C = 8\pi$$

$$P = 28 + 8\pi \text{ ft}$$

$$28 + 8\pi$$

Nov 25-8:59 AM

If the circumference of a circle is 18π inches, what is the area, in square inches of the circle? Leave your answer in terms of π .

(HINT: Find the radius of the circle first!)

$$C = \pi d$$

$$\downarrow$$

$$18\pi = \pi d$$

$$18 = d$$

$$9 = r$$

$$A = \pi r^2 \rightarrow \pi(9)^2$$

$$A = 81\pi$$

Nov 23-8:20 AM