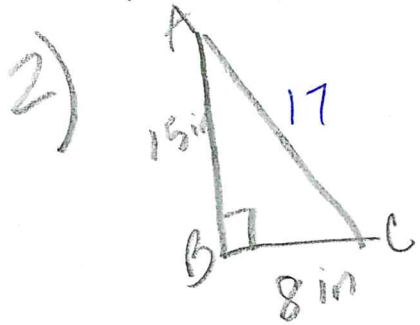


# Warm-up:

- 1) Is a triangle with sides of 10, 15, and 17 acute, obtuse, or a right  $\Delta$ ? How do you know?

$$17^2 > 10^2 + 15^2 \\ 289 < 100 + 225, \text{ so } c^2 \text{ is too small, acute}$$



$$\tan C = \frac{15}{8} \\ \sin C = \frac{15}{17} \\ \cos C = \frac{8}{17}$$

} no calculator needed except maybe to find AC

- 3) Find the length of AB where A(-4, 1) B(2, 9)  
Show work.  $\sqrt{(2+4)^2 + (9-1)^2} = \sqrt{6^2 + 8^2} = \boxed{10}$

- 4) Write an equation of a circle with center (3, 5) and radius 4.  $(x-3)^2 + (y-5)^2 = 16$

- 5) What are the center and radius of this circle?  $(x+2)^2 + (y-1)^2 = 9$   
center (-2, 1) r=3