Math 41
Quiz 7
Due December 3 in class.

1. Use a calculator to approximate the ratio of the angle, round to three decimals.

$a.\quad \cos 22^0 \approx$ $\boxed{}$

$b.\quad \sin 89^0 45' \approx$ $\boxed{}$

$c.\quad \tan \frac{2\pi}{5} \approx$ $\boxed{}$

$d.\quad \sec 110.5^0 \approx$ $\boxed{}$

$e.\quad \csc \frac{5}{2} \approx$ $\boxed{}$

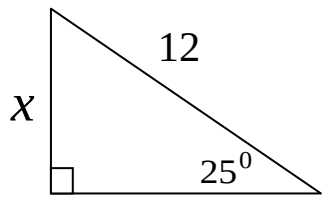
2. Find $\theta,\quad 0^o < \theta < 90^o$ for each equation. Round to one decimal place.

a. $\tan\theta = 2$ $\qquad \boxed{\theta \approx}$

b. $\csc\theta = \dfrac{8}{5}$ $\qquad \boxed{\theta \approx}$

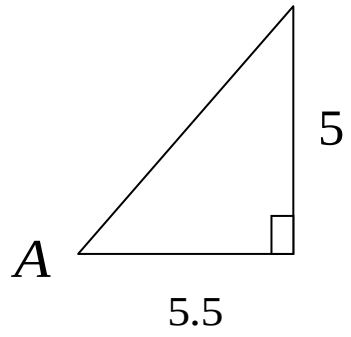
c. $\sin\theta = 0.125$ $\qquad \boxed{\theta \approx}$

3. Find side x of the right triangle.



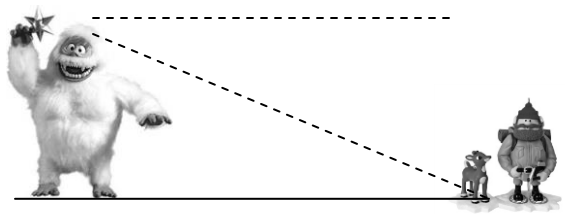
$x \approx$

b. Find angle A in degrees rounded to one decimal.



$A \approx$

5. Find the angle of depression, θ in degrees rounded to one decimal, from the top of a 50 abominable snowman to a point 150 feet
From his feet.



$\theta \approx$

6. Use a calculator to approximate two values of θ in degrees $\left(0^\circ \le x < 360^\circ\right)$ that satisfy the equation. Round your answers to one decimal place.

$$\sin x = -\ 0.75$$

$x \approx$

$x \approx$