$\sin\theta = \frac{opp}{hyp}$ $\cos\theta = \frac{adj}{hyp}$ $\tan\theta = \frac{opp}{adj}$

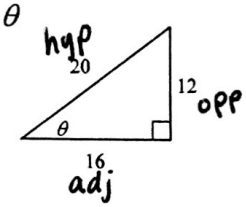
Integrated Math 2 Name Key

Checkpoint 7B

Date_____ Period____

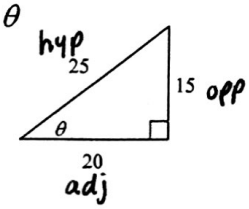
Find the value of the trig function indicated.

1) sin θ



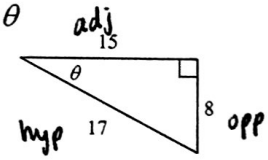
$\sin\theta = \frac{12}{20} = \boxed{\frac{3}{5}}$

2) cos θ



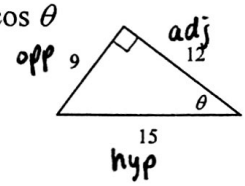
$\cos\theta = \frac{20}{25} = \boxed{\frac{4}{5}}$

3) tan θ



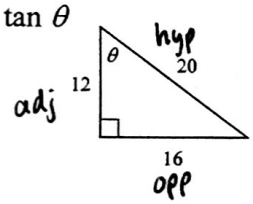
$\tan\theta = \boxed{\frac{8}{15}}$

4) cos θ



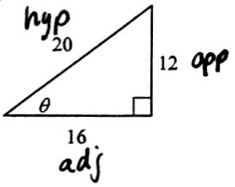
$\cos\theta = \frac{12}{15} = \boxed{\frac{4}{5}}$

5) tan θ



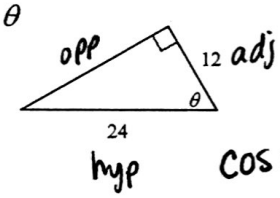
$\tan\theta = \frac{16}{12} = \boxed{\frac{4}{3}}$

6) cos θ



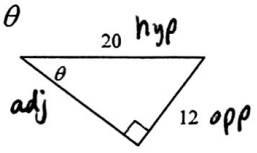
$\cos\theta = \frac{16}{20} = \boxed{\frac{4}{5}}$

7) cos θ



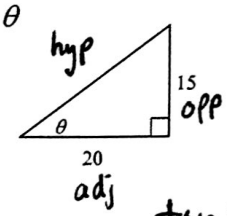
$\cos\theta = \frac{12}{24} = \boxed{\frac{1}{2}}$

8) sin θ



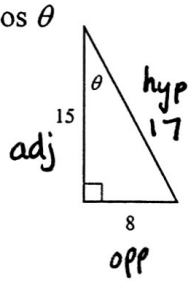
$\sin\theta = \frac{12}{20} = \boxed{\frac{3}{5}}$

9) tan θ



$\tan\theta = \frac{15}{20} = \boxed{\frac{3}{4}}$

10) cos θ



$(15)^2 + (8)^2 = x^2$

$225 + 64 = x^2$

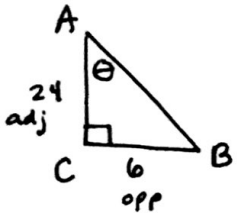
$\sqrt{289} = \sqrt{x^2}$

$17 = x$

$\cos\theta = \boxed{\frac{15}{17}}$

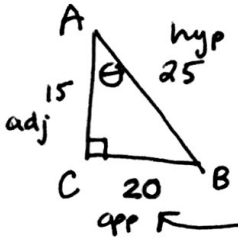
In each triangle ABC, angle C is a right angle. Find the value of the trig function indicated.

11) Find $\tan A$ if $b = 24$, $a = 6$



$\tan(A) = \frac{6}{24} = \boxed{\frac{1}{4}}$

12) Find $\sin A$ if $b = 15$, $c = 25$



$x^2 + 15^2 = 25^2$

$x^2 + 225 = 625$

$-225 \quad -225$

$\sqrt{x^2} = \sqrt{400}$

$x = 20$

$\sin(A) = \frac{20}{25} = \boxed{\frac{4}{5}}$

Find the value of the trig function indicated.

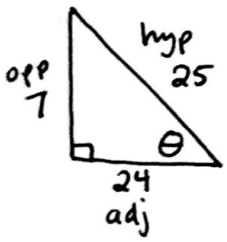
13) Find $\sin\theta$ if $\cos\theta = \frac{4 \leftarrow \text{adj}}{5 \leftarrow \text{hyp}}$

$\sin\theta = \frac{3}{5}$

14) Find $\cos\theta$ if $\sin\theta = \frac{5 \leftarrow \text{opp}}{13 \leftarrow \text{hyp}}$

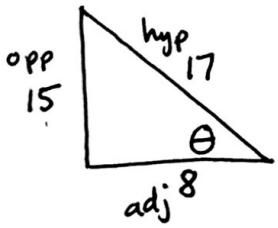
$\cos\theta = \frac{12}{13}$

15) Find $\sin\theta$ if $\cos\theta = \frac{24 \leftarrow \text{adj}}{25 \leftarrow \text{hyp}}$



$\sin\theta = \frac{7}{25}$

16) Find $\tan\theta$ if $\sin\theta = \frac{15 \leftarrow \text{opp}}{17 \leftarrow \text{hyp}}$



$\tan\theta = \frac{15}{8}$