

## Q2 HW1 \*All work on looseleaf\*

Date\_\_\_\_\_ Period\_\_\_\_\_

**Simplify using the exponent rules.**

1)  $-3ba^2 \cdot -3a^3b^4$

3)  $\frac{(2vu^2)^2}{-2v^{-1} \cdot 2u^4v^4}$

5)  $\frac{(-uv^4 \cdot u^2v^2)^3}{2u^0}$

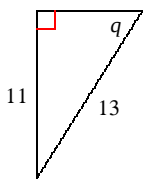
2)  $\frac{y}{-3y^4}$

4)  $\left( \frac{x^2}{-2x^4y^3 \cdot -2x^{-2}y^4} \right)^0$

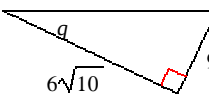
6)  $\frac{x^2y^{-3} \cdot (-yx^{-3})^2}{-yx^3}$

**Find the exact value of the trig function indicated.**

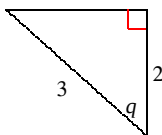
7)  $\sin q$



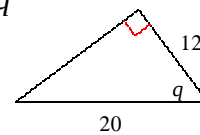
8)  $\tan q$



9)  $\sin q$



10)  $\sin q$



11) Find  $\tan A$  if  $b = 9$ ,  $a = 12$

12) Find  $\tan A$  if  $c = 20$ ,  $b = 16$

13) Find  $\tan q$  if  $\cos q = \frac{15}{17}$

14) Find  $\tan q$  if  $\cos q = \frac{\sqrt{10}}{10}$

**Find the value of each. Round your answers to the nearest ten-thousandth. Calculator OK.**

15)  $\tan 25^\circ$

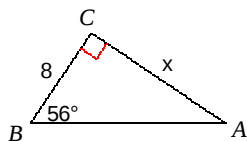
16)  $\sin 50^\circ$

17)  $\sin 35^\circ$

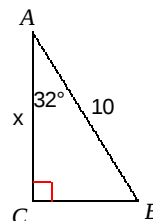
18)  $\tan 50^\circ$

**Find the measure of each side indicated. Round to the nearest tenth. Calculator OK.**

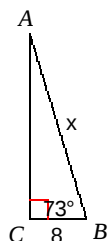
19)



20)



21)



22)

