Homework – Trig & Coordinate Points

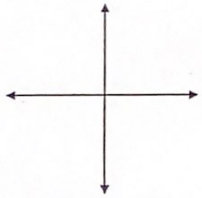
Name: _____

Identify in which quadrants each trig ratio is positive or negative.

1. sine
   Pos: Neg:
2. cosine
   Pos: Neg:
3. tangent
   Pos: Neg:

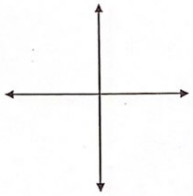
Find the length of the hypotenuse, the reference angle, and the value of each trigonometric ratio if the terminal side includes the given point.

4. $(7,7)$



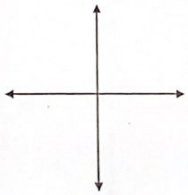
H = _____
θ' = _____
θ = _____
$\sin(\theta)$ = _____
$\cos(\theta)$ = _____
$\tan(\theta)$ = _____

5. $(-2\sqrt{3},2)$



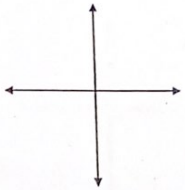
H = _____
θ' = _____
θ = _____
$\sin(\theta)$ = _____
$\cos(\theta)$ = _____
$\tan(\theta)$ = _____

6. $(9\sqrt{3},-9)$



H = _____
θ' = _____
θ = _____
$\sin(\theta)$ = _____
$\cos(\theta)$ = _____
$\tan(\theta)$ = _____

7. $(-\sqrt{5},-\sqrt{5})$



H = _____
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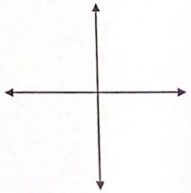
θ = _____
$\sin(\theta)$ = _____
$\cos(\theta)$ = _____
$\tan(\theta)$ = _____

8. $\left(-\frac{1}{2},\frac{1}{2}\right)$



H = _____
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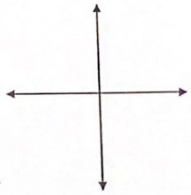
θ = _____
$\sin(\theta)$ = _____
$\cos(\theta)$ = _____
$\tan(\theta)$ = _____

9. $(4\sqrt{6},4\sqrt{2})$ *Challenge Problem*



H = _____
θ' = _____
θ = _____
$\sin(\theta)$ = _____
$\cos(\theta)$ = _____
$\tan(\theta)$ = _____