Match each rule

For point (x, y) and r:

r =	$= \frac{r}{y}$
$\sin\theta =$	$= \frac{r}{x}$
$\cos\theta =$	$= \frac{x}{y}$
$\tan\theta =$	$= \frac{y}{r}$
$\csc\theta =$	$= \frac{x}{r}$
$\sec\theta =$	$= \frac{y}{x}$
$\cot\theta =$	$= \sqrt{x^2 + y^2}$

Activity 3: individually

Check

The terminal side of θ in standard position contains the point (2, –8). Find the exact values of the six trigonometric functions of θ.

Step 1) find r: $r = \sqrt{x^2 + y^2}$

$r = \sqrt{(\square)^2 + (\square)^2} =$

Step 2) find trigonometric functions:

$\sin\theta = \frac{y}{r} = \frac{\quad}{\quad}$ or $\frac{\quad}{\quad}$ $\cos\theta = \frac{x}{r} = \frac{\quad}{\quad}$ or $\frac{\quad}{\quad}$ $\tan\theta = \frac{y}{x} = \frac{\quad}{\quad}$ or $\frac{\quad}{\quad}$

$\csc\theta = \frac{r}{y} = \frac{\quad}{\quad}$, $\sec\theta = \frac{r}{x} = \frac{\quad}{\quad}$, $\cot\theta = \frac{x}{y} = \frac{\quad}{\quad}$