Name : _____

Six Trigonometric Ratios

Use the given point on the terminal side of an angle θ in standard position to find the exact values of six trigonometric ratios.

1) (40, 9)

sin θ = _____ cosec θ = _____

cos θ = _____ sec θ = _____

tan θ = _____ cot θ = _____

2) (–20, 21)

3) (–6, –18)

4) (4, –3)

sin θ = _____ cosec θ = _____

cos θ = _____ sec θ = _____

tan θ = _____ cot θ = _____

Name : _____

Answer key

Six Trigonometric Ratios

Sheet 2

Use the given point on the terminal side of an angle θ in standard position to find the exact values of six trigonometric ratios.

1) (40, 9)

sin θ = $\frac{9}{41}$ cosec θ = $\frac{41}{9}$

cos θ = $\frac{40}{41}$ sec θ = $\frac{41}{40}$

tan θ = $\frac{9}{40}$ cot θ = $\frac{40}{9}$

2) (–20, 21)

$\frac{29}{21}$

$-\frac{29}{20}$

$-\frac{20}{21}$

3) (–6, –18)

$-\frac{\sqrt{10}}{3}$

$-\sqrt{10}$

$\frac{1}{3}$

4) (4, –3)

sin θ = $-\frac{3}{5}$ cosec θ = $-\frac{5}{3}$

cos θ = $\frac{4}{5}$ sec θ = $\frac{5}{4}$

tan θ = $-\frac{3}{4}$ cot θ = $-\frac{4}{3}$