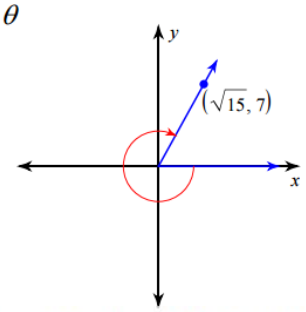
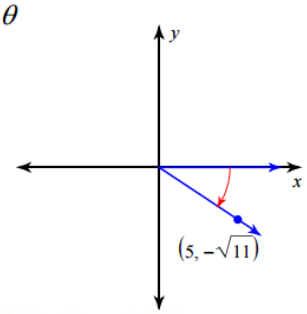
Switching Trig Ratios

Use the given point on the terminal side of angle θ to find the value of the trigonometric function indicated.

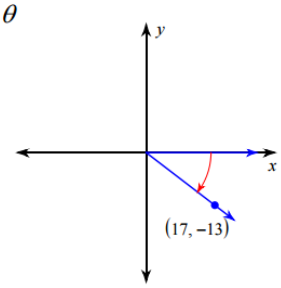
15) $\sin\theta$



18) $\sin\theta$



16) $\cot\theta$



Find the exact values of the five trigonometric ratios not given.

19) $\cot\theta = -\sqrt{7}$ and $\sin\theta > 0$

x= *y*= *r*=

sins θ =

cos θ =

tan θ =

sec θ =

csc θ =

20) $\cos\theta = \frac{24}{25}$ and $\sin\theta < 0$

x= *y*= *r*=

sin θ =

tan θ =

cot θ =

sec θ =

csc θ =

21) $\sin\theta = -\frac{2\sqrt{5}}{5}$ and $\cos\theta > 0$

x= *y*= *r*=

cos θ =

cos θ =

tan θ =

sec θ =

csc θ =

22) $\tan\theta = -5$ and $\cos\theta > 0$

x= *y*= *r*=

sin θ =

cos θ =

cot θ =

sec θ =

csc θ =

23) $\csc\theta = \frac{3\sqrt{7}}{7}$ and $\cos\theta < 0$

x= *y*= *r*=

cos θ =

cos θ =

tan θ =

sec θ =

csc θ =

24) $\sec\theta = 2$ and $\sin\theta < 0$

x= *y*= *r*=

sin θ =

cos θ =

cot θ =

sec θ =

csc θ =