Reciprocal Trigonometric Ratios

Determine all other trigonometric ratios given the following:

1) $\sin\theta = \frac{3}{5}$
2) $\cos\theta = \frac{5}{8}$
3) $\tan\theta = \frac{12}{5}$
4) $\csc\theta = \frac{8}{3}$
5) $\sec\theta = \frac{6}{5}$
6) $\cot\theta = \frac{2}{7}$

Angles Beyond 180°

1. Name 3 coterminal angles for each of the following:

1) 150°
2) -310°
3) 10°
4) -245°
5) 1865°
6) -2055°

2. Determine the principal angle for each of the following:

1) 550°
2) -910°
3) -10°
4) 1245°
5) -1560°
6) 2850°

3. State the exact trig ratio for the following:

a) sin 45°
b) tan 30°
c) cos 60°
d) sin 225°
e) tan 135°
f) cos 330°
g) csc 150°
h) cot -135°
i) sec -420°