

Algebra II
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	sin(θ)	cos(θ)	tan(θ)	csc(θ)	sec(θ)	cot(θ)
2)	$\frac{3}{5}$	$\frac{4}{5}$	$\frac{3}{4}$	$\frac{5}{3}$	$\frac{5}{4}$	$\frac{4}{3}$
4)	$\frac{1}{\sqrt{5}}$	$\frac{\sqrt{2}}{\sqrt{5}}$	$\frac{1}{2}$	$\sqrt{5}$	$\frac{\sqrt{5}}{2}$	2
6)	$\frac{4}{5}$	$\frac{3}{5}$	$\frac{4}{3}$	$\frac{5}{4}$	$\frac{5}{3}$	$\frac{3}{4}$
8)	$\frac{1}{\sqrt{2}}$	$\frac{1}{\sqrt{2}}$	1	$\sqrt{2}$	$\sqrt{2}$	1
10)	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$			
2)	$\frac{\sqrt{2}}{3}$	$\frac{\sqrt{3}}{3}$	$\frac{\sqrt{2}}{\sqrt{3}}$			
4)	$\frac{12}{13}$	$\frac{5}{13}$	$\frac{12}{5}$			

- 16) 40°
- 18) 73°
- 20) $\angle B = 60^\circ, b = 6\sqrt{3}$
 $c = 12$
- 22) $\angle B = 45^\circ$
 $a = b = 5\sqrt{2}$
- 24) $\angle A = 30^\circ, \angle B = 60^\circ$
 $b = 3\sqrt{3}$
- 26) $\frac{15}{\sqrt{2}} + \frac{15}{\sqrt{6}}$
- 28) $24 - \frac{24}{\sqrt{3}}$

2) P(5,5)



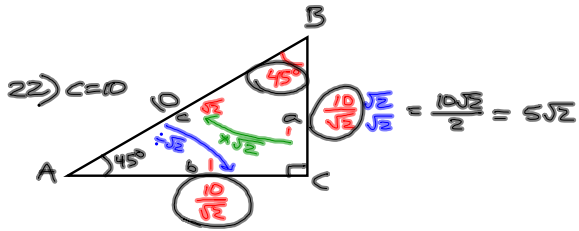
$$\frac{\sqrt{50}}{5\sqrt{2}}$$

$$\frac{\sqrt{25 \cdot 2}}{5\sqrt{2}}$$

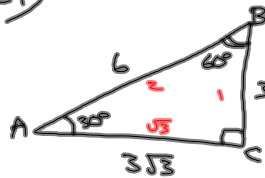
$\sin(\theta) = \frac{5}{5\sqrt{2}} = \frac{1}{\sqrt{2}}$	$\csc(\theta) = \sqrt{2}$
$\cos(\theta) = \frac{5}{5\sqrt{2}} = \frac{1}{\sqrt{2}}$	$\sec(\theta) = \sqrt{2}$
$\tan(\theta) = \frac{5}{5} = 1$	$\cot(\theta) = 1$

16) $\sin \phi = \cos 50^\circ$
 40°

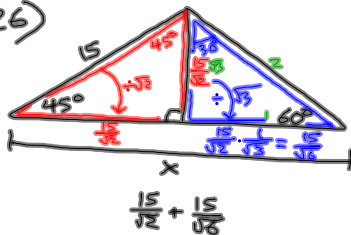
If the co-functions are equal, then the angles are complementary.



24)



26)



28)

