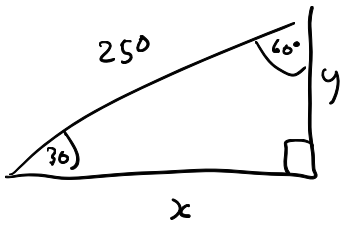
1/2)



$\frac{250}{\sin 90} = \frac{y}{\sin 30}$

$250 \times \frac{1}{2} = y$

$y = 125\,N$ //

$\frac{250}{\sin 90} = \frac{x}{\sin 60}$

$250 \times \frac{\sqrt{3}}{2} = x$

$x = 125\sqrt{3} = 216.5\,N$ //

5) $= 50 \times \sin 20$

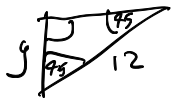
$\doteq 17.101$

6) $= 50 \times \cos 20$

$= 46.984$

7) $= (6 + 6\sqrt{2}) - 8$

$= -2 + 6\sqrt{2} = 6.5$



$\frac{12}{\sin 90} = \frac{y}{\sin 30}$

$12 \times \frac{1}{2} = y = 6$

$\frac{12}{\sin 90} = \frac{y}{\sin 45}$

$12 \times \frac{\sqrt{2}}{2} = y = 6\sqrt{2}$

8)

$\frac{12}{\sin 90} = \frac{x}{\sin 45}$, $x = 6\sqrt{2}$

$\frac{12}{\sin 90} = \frac{x}{\sin 60}$, $x = 12 \times \frac{\sqrt{3}}{2} = 6\sqrt{3}$

$= 6\sqrt{3} - 6\sqrt{2} = 1.907$