

## Homework 5.1 Solutions

1.  $\sin A = 3/5$        $\sin B = 4/5$   
 $\cos A = 4/5$        $\cos B = 3/5$   
 $\tan A = 3/4$        $\tan B = 4/3$
2.  $\sin A = 5/11$        $\sin B = 8\sqrt{6}/22$   
 $\cos A = 8\sqrt{6}/22$        $\cos B = 5/11$   
 $\tan A = \frac{10/8\sqrt{6}}{5\sqrt{6}/24}$        $\tan B = 4\sqrt{6}/5$
3.  $B = 58.67^\circ$       4.  $A = 48.19^\circ$
5.  $14.79 \text{ cm}^2$       6.  $18.43 \text{ cm}^2$
7.  $10.24 \text{ in}^2$       8.  $89.12 \text{ ft}^2$
- ★  $x = 23, \tan A = 21/20$