Show all work clearly and in order. Please box your answers.

- 1. Suppose $x = \sin(\theta)$ and $-\pi/2 \le \theta \le \pi/2$.
 - (a) Draw the corresponding right triangle:
 - (b) $\sin(\theta) =$
 - (c) $\cos(\theta) =$
 - (d) $\tan(\theta) =$
- 2. Suppose $x = 3\sin(\theta)$ and $-\pi/2 \le \theta \le \pi/2$.
 - (a) Draw the corresponding right triangle:
 - (b) $\sin(\theta) =$
 - (c) $\cos(\theta) =$
 - (d) $\tan(\theta) =$
- 3. Suppose x = 2 tan(θ) and -π/2 < θ < π/2.
 (a) Draw the corresponding right triangle:
 - (b) $\sin(\theta) =$
 - (c) $\cos(\theta) =$
 - (d) $\tan(\theta) =$

4. Suppose $x = 5 \sec(\theta)$ and $[0 \le \theta < \pi/2 \text{ OR } \pi \le \theta < 3\pi/2]$.

- (a) Draw the corresponding right triangle:
- (b) $\sin(\theta) =$
- (c) $\cos(\theta) =$
- (d) $\tan(\theta) =$
- 5. Complete the square for each of the following:
 - (a) $5 + 4x x^2 =$ (b) $x^2 + x + 1 =$ (c) $x^2 + 2x =$ (d) $x^2 - 2x + 2 =$ (e) $x^2 - 4x + 8 =$