Exam Review: Trigonometric Functions

1. **Determine if each expression will be positive or negative without using your calculator.**

   a) $\sin(300^\circ)$ **b) $\cos(120^\circ)$** **c) $\tan(230^\circ)$**

2. **Determine the value of θ for each equation;** $0^\circ \le \theta \le 360^\circ$.

   a) $\sin\theta = 0.75$ **b) $\tan\theta = -0.35$** **c) $\cos\theta = 1.5$**

3. **Determine two coterminal angles (one positive and one negative) for each angle θ.**

   a) $\theta = 150^\circ$ **b) $\theta = 240^\circ$**

4. **Determine the exact value for each expression; ie use radicals if required.**

   a) $\cos(150^\circ)$ **b) $\sin(225^\circ)$**

5. **Determine the coordinates of the point on a unit circle with an angle in standard position equal to 250°.**

6. **Determine the possible length(s) of side x.**