1. Write the equation of the line that goes through the point (-1, -2) and is perpendicular to the line $2x - 5y = 6$.

2. Solve for x: $3x - 8 \geq 0$.

3. Solve for x: $x^2 + 2x - 8 < 0$

4. Find the domain of $\sqrt{x^2 - 9x + 18}$

5. Solve for x: $4x^2 \leq 9$

6. Find the exact values of all six trig functions of θ if $\sec\theta = \frac{4}{3}$

7. Find the exact value of all six trig functions of θ if:

a) $\theta = -\frac{13\pi}{6}$

b) $\theta = 660°$

8. Solve for x: $\frac{x^3 - 16x}{x+1} \leq 0$

9. Given $f(x) = x^2 + 2x - 1$ and $g(x) = x + 3$ find:

a) $f(g(x))$

b) $g(f(x))$

10. Using the model $h(x) = f(g(x))$ and given $h(x) = \frac{2}{(x+3)}$ find:

a) $f(x)$

b) $g(x)$