Review Test 1-Math 1010

1) Solve: $8x + (4x - 5) = 15$
2) Solve: $4 + 9x = 9(x + 3)$

3) The degree measures of the angles in a triangle are three consecutive integers. Find the three numbers.
4) Find two consecutive even integers such that two times the first plus three times the second is 76.

5) The area of a trapezoid with bases 8 ft, respectively 12 ft, is 90 ft$^2$: Find the height.
6) Simplify. Use only positive exponents.
   a) $6x^5y^4 \div 3x^3y^2z^3$
   b) $\frac{3x^4y^6z^3}{2x^3y^3z^3}$

7) For $f(x)$ given, find the domain of $f$, find $f(1)$ and $f(x + 2)$:
   $f(x) = \frac{x^3}{2x - 4}$

8) Determine the $y$-intercept for $3y + 2x = 5$:

9) Find the equation of the line having slope 7 and $y$-intercept (0; -4):

10) Find the equation of the line through (4,5) and parallel to the y-axis.

11) Find the equation of line passing through the points (4,7) and (2,5).
12) Find the equation of line passing through the point (2,5) and perpendicular to $x - 2y = 10$: 