

Name: _____
Date: _____
Class: _____

Algebra
Review
Graded Homework 20

Show all of your work for every problem. The numbers in the brackets are the points that each problem is worth. Multiple Choice Problems are worth 3.
NO WORK = ZERO CREDIT

1) [4] Solve: $15x^2 + 3x + 11 = 19 - 14x - 6x^2$

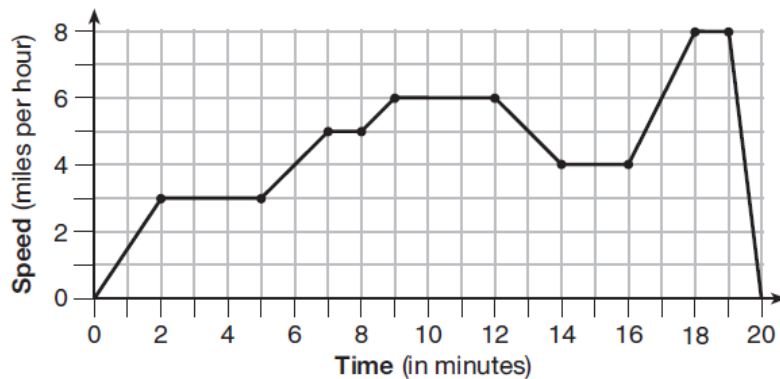
2) [3] Find the zeroes for the following function: $x^2 + 7x - 228 = g(x)$

3) [3] The cost to produce a piece of electronic equipment can be found using the function: $C(n) = 50n + 100$ where n is the number of minutes it takes to assemble the electronic. Explain what the 50 and the 100 could mean in the function?

4) [3] What would the domain be for the following equation for the interval:
 $12 < x < 20$? $y = 25 - 2x$.

5) [4] Line A passes through (2, 4) and (-8, -1). Line B passes through (-2, 14) and (4, 26). Explain the relationship between these two lines.

6) [3] The graph below represents a jogger's speed during her 20-minute jog around her neighborhood.



What was happening between minutes 12 and 14?

- (1) She was standing still.
- (2) She was increasing her speed.
- (3) She was decreasing her speed.
- (4) She was jogging at a constant rate.

7) [3] If the area of a rectangle is expressed as $x^4 - 9y^2$, find an expression that could be used to represent the perimeter of this rectangle.

8) [3] Mo's farm stand sold a total of 165 pounds of apples and peaches. She sold apples for \$1.75 per pound and peaches for \$2.50 per pound. If she made \$337.50, how many pounds of peaches did she sell?

- | | |
|--------|---------|
| (1) 11 | (3) 65 |
| (2) 18 | (4) 100 |