MRS21-HW-10

Please select the correct answer number for each question. There are more answers than questions. Answers may be repeated.

1) $x = -4$

2) 793.6 ft-lb

3) $x = \sqrt[3]{\frac{3}{2}} - 1$

4) No; she used a quadratic that has additional real zeros; she should have used $x^2 + 1$ as her quadratic.

5) Answers may vary. Sample: $y = x^4 + 8x^3 + 16x^2 + 8x + 15$

6) $y = \frac{1}{3}(-x)^3 + 6$

7) yes; vertical stretch by a factor of 2, horizontal translation 3 units right, vertical translation 4 units up

8) Answers may vary. Sample: $y = (x - 2)^4 - 1$

9) about 48.7 ft/s^2

10) $y = -(x - 2)^3 - 3$

11) 24.8

12) about 5.6 ft/s