

Solve:

1. $\frac{x^2}{4} + \frac{x}{4} = \frac{3}{2}$

[A] $\frac{1}{3}, -\frac{1}{2}$

[B] 3, -2

[C] -3, 2

[D] $-\frac{1}{3}, \frac{1}{2}$

2. $\frac{x^2}{4} - \frac{3x}{2} = -\frac{5}{4}$

[A] 5, 1

[B] $\frac{1}{5}, 1$

[C] -5, -1

[D] $-\frac{1}{5}, -1$

3. $\frac{x^2}{4} - \frac{x}{1} = \frac{5}{4}$

[A] $\frac{1}{5}, -1$

[B] $-\frac{1}{5}, 1$

[C] -5, 1

[D] 5, -1

4. $\frac{x^2}{2} - \frac{7x}{4} = -\frac{3}{2}$

5. $\frac{x^2}{2} + \frac{x}{4} = \frac{3}{2}$

6. $\frac{x^2}{4} - \frac{3x}{2} = -\frac{5}{4}$

7. $\frac{x^2}{4} - \frac{x}{2} = \frac{3}{4}$

8. $\frac{x^2}{4} - \frac{5x}{4} = -\frac{3}{2}$

9. For which value of x is $f(x) = -10$ if
 $f(x) = -4x^2 + 3x$?

[A] -1 [B] 4 [C] 3 [D] -2 [E] 2

10. A rock is thrown from the top of a tall building. The distance, in feet, between the rock and the ground
- t
- seconds after it is thrown is given by
- $d = -16t^2 - 2t + 763$
- . How long after the rock is thrown is it 430 feet from the ground?

[A] $\frac{37}{8}$ sec

[B] $\frac{11}{2}$ sec

[C] $\frac{45}{8}$ sec

[D] $\frac{9}{2}$ sec

[1] C _____

[2] A _____

[3] D _____

[4] $\frac{3}{2}, 2$ _____

[5] $\frac{3}{2}, -2$ _____

[6] 5, 1 _____

[7] 3, -1 _____

[8] 3, 2 _____

[9] E _____

[10] D _____