

Solve:

1. $x^2 + x - 30 = 0$

[A] -6, 5 [B] -5, 6 [C] -6, -5 [D] 6, 5

2. $x^2 + 2x - 8 = 0$

[A] -4, 2 [B] -2, 4 [C] -4, -2 [D] 4, 2

3. $x^2 + x - 2 = 0$

[A] -2, -1 [B] -1, 2 [C] -2, 1 [D] 2, 1

4. $x^2 + 2x - 3 = 0$

[A] -1, 3 [B] -3, 1 [C] 3, 1 [D] -3, -1

5. $x^2 - x - 20 = 0$

[A] 4, 5 [B] -5, 4 [C] -4, 5 [D] -4, -5

6. $x^2 + 3x - 10 = 0$

[A] -5, 2 [B] -2, 5 [C] -5, -2 [D] 5, 2

7. $x^2 + 7x - 8 = 0$

8. $x^2 - x - 6 = 0$

9. $x^2 + 8x + 15 = 0$

10. $x^2 + 5x - 6 = 0$

11. $x^2 + 3x - 54 = 0$

12. $x^2 - 12x + 32 = 0$

13. $49x = x^2$

[A] 0, 49 [B] -7, 7 [C] 0, 7 [D] 1, 49

14. $64x = x^2$

[A] -8, 8 [B] 0, 64 [C] 0, 8 [D] 1, 64

15. Which are the solutions to $x^2 + 9x = 36$?

[A] $x = -12, x = 3$ [B] $x = 4, x = 9$ [C] $x = 12, x = -3$ [D] $x = -4, x = 9$

16. Compare the quantity in Column A with the quantity in Column B.

<u>Column A</u>	<u>Column B</u>
the sum of the solutions of	the sum of the solutions of
$x^2 - 6x = 7$	$x^2 + 8x = -7$

- [A] The quantity in Column A is greater. [B] The quantity in Column B is greater.
[C] The two quantities are equal.
[D] The relationship cannot be determined on the basis of the information supplied.

17. Compare the quantity in Column A with the quantity in Column B.

<u>Column A</u>	<u>Column B</u>
the greater solution of	the greater solution of
$x^2 - 4x - 12 = 0$	$x^2 + 3x + 2 = 0$

- [A] The quantity in Column A is greater. [B] The quantity in Column B is greater.
[C] The two quantities are equal.
[D] The relationship cannot be determined on the basis of the information supplied.

- [1] A
- [2] A
- [3] C
- [4] B
- [5] C
- [6] A
- [7] -8, 1
- [8] -2, 3
- [9] -5, -3
- [10] -6, 1
- [11] -9, 6
- [12] 4, 8
- [13] A
- [14] B
- [15] A
- [16] A
- [17] A