

II. DEGREE EQUATIONS

Name _____

Class _____

Date _____

ANSWERS

1a _____

1b _____

2a _____

2b _____

3a _____

3b _____

4a _____

4b _____

5a _____

5b _____

6a _____

6b _____

Solve the equations.

1. a. $4x^2 + 6x = 9x^2 - 15x$

b. $13x - 7x^2 = 5x^2 + 8x$

2. a. $(x - 7)(x + 3) + (x - 1)(x + 5) = 102$

b. $55 - x(3x + 4) = 2(17 - 2x) - 62$

3. a. $2(x + 1)^2 - (x - 3)(x + 3) = 7 + x^2$

b. $2(x - 2)(x + 2) - (x - 1)^2 = x^2 - 5$

4. a. $(x - 1)(x^2 + x + 1) = x^2(x - 1)$

b. $x^2(x + 2) = (x + 2)(x^2 - x + 3)$

5. a. $2x^4 - x^2 = 0$

b. $3x^3 - x = 0$

6. a. $x^3 - 6x^2 = 4(x - 6)$

b. $4y^3 + 4y^2 = 2(y + 1)^2$

A

ANSWERS

7a

7b

8a

8b

9a

9b

10a

10b

7. a. $\frac{6}{x} + \frac{6}{x+1} = 5$

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

8. a. $\frac{1\frac{3}{5} + 4x}{16} = \frac{2\frac{2}{7} + 5x}{24}$

b. $\frac{1,3x+5}{4,8} = \frac{2,9x-2}{2,4}$

9. a. $x^2 + 2x - 15 = 0$

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

10. a. $\frac{(x-2)^2}{2} - \frac{x^2-4}{4} - \frac{(x-2)^2}{8} = \frac{x^2}{8}$

b. $\frac{2\frac{1}{3}x+1}{1,3} - \frac{\frac{1}{3}x-1}{3,9} = 0$