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1. $8x^2 - 24x$

14. $g^2 + 19g + 60$

2. $8x^2 - 12x$

15. $16c^2 - 62c - 45$

3. $8x^4 - 12x^2$

16. $36x^2 + 101x + 45$

4. $x^2 - 121$

17. $20q^2 - 41q + 20$

5. $81x^2 - 25$

18. $20q^2 - 9q - 20$

6. $81x^2 - 225$

19. $2m^3 - 2m^2 - 70m$

7. $16p^2 - 40p + 25$

20. $50x^2 - 5x - 36$

8. $64r^2 + 112r + 49$

21. $20x^2 - 29x - 36$

9. $18m^3 + 60m^2 + 50m$

22. $x^3 - 5x^2 + 3x - 15$

10. $125t^3 + 64$

23. $5x^3 + 20x^2 - 3x - 12$

11. $27 - 8q^3$

24. $9x^3 + 45x^2 - 4x - 20$

12. $729x^3 - 64$

25. $288n^3 + 100n^2 - 252n$

13. $x^2 - 12x + 35$

Algebra 1	Topic	File
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Worksheet: Factoring Trinomials (a-2)	Factoring Trinomials	Factoring Trinomials (a-2).pdf
Worksheet: Factoring Trinomials (a-3)	Factoring Trinomials	Factoring Trinomials (a-3).pdf
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Worksheet: Factoring Trinomials (a-6)	Factoring Trinomials	Factoring Trinomials (a-6).pdf
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Worksheet: Factoring Trinomials (a-11)	Factoring Trinomials	Factoring Trinomials (a-11).pdf
Worksheet: Factoring Trinomials (a-12)	Factoring Trinomials	Factoring Trinomials (a-12).pdf
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Consider the equation

$$a^2 - 3a - 28 = 0$$

The objective is to solve the given equation.

For this first factor $a^2 - 3a - 28$ and then use zero product property.

Compare $a^2 - 3a - 28$ with $x^2 + bx + c$.

Here $b = -3$.

$c = -28$

Since $(a + m)(a + n) = a^2 + (m + n)a + mn$

That is $m + n = -3$, negative and

$mn = -28$ is also negative.

So, either m (or) n is negative, but not both.

Now make list of factors of -28 , in those pair of factors, choose the factors whose sum is -3 .

Factors of -28	Sum of factors
1, -28	-27
-1, 28	27
4, -7	-3
-4, 7	3
2, -14	-12
-2, 14	12

The correct factors are $4, -7$.

Complete the square	Worksheet 1
1) $x^2 + 2x - 46 = 2$	
2) $x^2 - 4x - 39 = 6$	
3) $x^2 - 12x - 30 = -5$	
4) $7x^2 + 14x - 15 = 6$	
5) $5x^2 - 20x - 65 = -5$	
6) $10x^2 - 20x - 23 = 7$	
7) $3x^2 + 18x - 15 = 6$	
8) $x^2 - 16x - 50 = -5$	
9) $5x^2 + 20x - 50 = 10$	
10) $2x^2 - 20x + 45 = -3$	

Solving Quadratic Problems 0.1.1.0

Worksheet

1) $x^2 + 2x - 46 = 2$

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6) $10x^2 - 20x - 23 = 7$

7) $3x^2 + 18x - 15 = 6$

8) $x^2 - 16x - 50 = -5$

9) $5x^2 + 20x - 50 = 10$

10) $2x^2 - 20x + 45 = -3$

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