

Do Now: Factor each of the following.
State the method of factoring you are using.

A. $\sqrt{x^2 - 49}$ DOTS

$$(x+7)(x-7)$$

B. $20p^2 - 16p^2q^2$ GCF

$$4p^2(5 - 4q^2)$$

C. $(x^3 + 2x^2)(-5x - 10)$ Grouping

$$x^2(x+2) - 5(x+2)$$

$$(x^2 - 5)(x+2)$$

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1) D 2) B 3) A 4) D 5) C

6) B

7) $(7+x)(7-x)$

8) $(10a+3)(10a-3)$

9) $(9+2x)(9-2x)$

10) $(p+q)(p-q)$

11) $(6+p^2)(6-p^2)$

12) $(p+10)(p-10)$

13) $(3y+5)(3y-5)$

14) $(3a+2b)(3a-2b)$

15) $(x^2+5)(x^2-5)$

Homework Answers

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|--------------------------------|-------|-------|------|--------------------------|
| 1) B | 2) C | 3) A | 4) D | 19) $(10 + pq)(10 - pq)$ |
| 5) $a^3b^2c^2(74b^3 - 23a^2c)$ | | | | 20) $(9 + 2x)(9 - 2x)$ |
| 6) $12z(5c - 2z^2)$ | | | | 21) $(x^2 + 5)(x^2 - 5)$ |
| 7) $32m^4n^7(3m^3n^2 + 5)$ | | | | 22) A |
| 8) $6y(3y^2 - 2y + 1)$ | | | | 23) $(a + 2b)(b - 7)$ |
| 9) $8x^3yz^2(3x - 5yz + 2xy)$ | | | | 24) $(z - 3)(z + x)$ |
| 10) D | 11) C | 12) D | | 25) $(7 - 12z)(8x - y)$ |
| 13) A | 14) B | 15) B | | 26) $(4x - 3)(3x - y)$ |
| 16) $(p + 10)(p - 10)$ | | | | 28) $(3r + s)(2x + y)$ |
| 17) $(7p + 3q)(7p - 3q)$ | | | | 29) $(c + 2d)(a + 2b)$ |
| 18) $(xy + z)(xy - z)$ | | | | 30) D |
| 19) $(10 + pq)(10 - pq)$ | | | | 31) B |

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