

7.6 Practice B

Choosing a Factoring Method

Tell whether each polynomial is completely factored. If not, factor it.

1. $6(t^2 + 12)$

2. $5(m^2 + 9m)$

3. $2p(p^4 - 9)$

4. $(x - 8)(2x + 3)$

5. $3k^3(5k^2 + 19)$

6. $7(14g^4 - 4g + 10)$

Factor each polynomial completely.

7. $24x + 40$

8. $5r^3 - 10r$

9. $3x^3y + x^2y^2$

10. $-3a^2b + 12ab - 12b$

11. $5t^3 - 45t + 3t^2 - 27$

12. $2y^2 - 6y - 56$

13. $6a^3 + 39a^2 + 45a$

14. $x^3 - 9x$

15. $12n^3 - 48$

16. $3c^4 + 24c^3 + 48c^2$

17. $3d^3 + 4d - 2$

18. $10w^6 - 160w^2$
