

# Factoring Expressions (A)

Factor each expression.

1.  $24x^2 - 54x$

11.  $48b^2 + 40b$

21.  $20z^2 - 32z$

2.  $12a^2 - 54a$

12.  $6c^2 + 4c$

22.  $12z^2 + 6z$

3.  $27c^2 - 24c$

13.  $27y^2 - 27y$

23.  $15y^2 + 27y$

4.  $45b^2 - 20b$

14.  $42a^2 - 14a$

24.  $18y^2 + 12y$

5.  $3b^2 - b$

15.  $30b^2 + 15b$

25.  $72y^2 - 9y$

6.  $6a^2 - 5a$

16.  $36z^2 + 36z$

26.  $45c^2 + 45c$

7.  $12z^2 + 24z$

17.  $45b^2 + 40b$

27.  $28x^2 + 28x$

8.  $20c^2 + 40c$

18.  $z^2 - 7z$

28.  $6c^2 - 9c$

9.  $5b^2 + 45b$

19.  $40y^2 - 5y$

29.  $14c^2 + 56c$

10.  $72y^2 - 27y$

20.  $28x^2 + 35x$

30.  $35y^2 - 20y$

# Factoring Expressions (A) Answers

Factor each expression.

1.  $24x^2 - 54x$   
 $6x(4x - 9)$

2.  $12a^2 - 54a$   
 $6a(2a - 9)$

3.  $27c^2 - 24c$   
 $3c(9c - 8)$

4.  $45b^2 - 20b$   
 $5b(9b - 4)$

5.  $3b^2 - b$   
 $b(3b - 1)$

6.  $6a^2 - 5a$   
 $a(6a - 5)$

7.  $12z^2 + 24z$   
 $12z(z + 2)$

8.  $20c^2 + 40c$   
 $20c(c + 2)$

9.  $5b^2 + 45b$   
 $5b(b + 9)$

10.  $72y^2 - 27y$   
 $9y(8y - 3)$

11.  $48b^2 + 40b$   
 $8b(6b + 5)$

12.  $6c^2 + 4c$   
 $2c(3c + 2)$

13.  $27y^2 - 27y$   
 $27y(y - 1)$

14.  $42a^2 - 14a$   
 $14a(3a - 1)$

15.  $30b^2 + 15b$   
 $15b(2b + 1)$

16.  $36z^2 + 36z$   
 $36z(z + 1)$

17.  $45b^2 + 40b$   
 $5b(9b + 8)$

18.  $z^2 - 7z$   
 $z(z - 7)$

19.  $40y^2 - 5y$   
 $5y(8y - 1)$

20.  $28x^2 + 35x$   
 $7x(4x + 5)$

21.  $20z^2 - 32z$   
 $4z(5z - 8)$

22.  $12z^2 + 6z$   
 $6z(2z + 1)$

23.  $15y^2 + 27y$   
 $3y(5y + 9)$

24.  $18y^2 + 12y$   
 $6y(3y + 2)$

25.  $72y^2 - 9y$   
 $9y(8y - 1)$

26.  $45c^2 + 45c$   
 $45c(c + 1)$

27.  $28x^2 + 28x$   
 $28x(x + 1)$

28.  $6c^2 - 9c$   
 $3c(2c - 3)$

29.  $14c^2 + 56c$   
 $14c(c + 4)$

30.  $35y^2 - 20y$   
 $5y(7y - 4)$