1. Find the greatest common factor (GCF).
$35x^2, \quad 12x, \quad 2x^3$
a. 2x
b. x
c. $2x^3$
d. $35x^3$
e. None of the above

2. 4.1.4
a. $c^4 d$
b. $c^7 d^{10}$
c. $3c^4 d$
d. $21c^7 d^{10}$
e. None of the above

3. 4.1.16
a. 2b(4a – 6c)
b. 4(2ab – 3bc)
c. 4b(2a – 3c)
d. b(8a – 12c)
e. None of the above

4. 4.1.20
a. $-2u^3(v^3 - w^6)$
b. $-2(15u^4 v^3 - u^3 w^6)$
c. $-2u^3(15v^3 - 2w^6)$
d. $-2u^3(15uv^3 - w^6)$
e. None of the above

5. 4.1.22
a. $9x^2(2x^3 - 4x + 5)$
b. $9x^2(2x^3 - 4x^2 + 5x)$
c. $9x(2x^3 - 4x + 5)$
d. $3x^2(6x^3 - 12x + 5)$
e. None of the above

6. 4.1.28

a. $y^4 z(4x^7 + 35y^2 z^3 - 9x^2 y^2 z^2)$

b. $xy^4 z(4x^7 + 35y^2 z^3 - 9x^2 y^2 z^2)$

c. $2y^4 z(2x^7 + 35y^2 z^3 - 9x^2 y^2 z^2)$

d. $x^7 y^4 z(4 + 35y^2 z^3 - 9x^2 y^2 z^2)$

e. None of the above

7. 4.1.30b

a. $(x+6)x+3$

b. $(x+6)^2(x+3)$

c. Not factorable.

d. $(x+6)(x+3)$

e. None of the above

8. 4.1.32b

a. $(b-2)(a-c)$

b. $(b-2)^2(a-c)$

c. Not factorable

d. $(b-2)a-c$

e. None of the above

9. 4.1.42

a. $(x-y)^2(3+z)$

b. Not factorable

c. $(x-y)3+z$

d. $(x-y)(3+z)$

e. None of the above

10. 4.1.56

a. Not factorable

b. $(3x-y)^2(5x-2)$

c. $(3x-y)5x-2$

d. $(3x-y)(5x-2)$

e. None of the above