

Practice 1.3.1 A: Identifying Terms, Factors, and Coefficients, p. U1-100

- terms: $12a^3$, $16a$, 4
factors: 12 and a^3 , 16 and a
coefficients: 12, 16
constant term: 4
- terms: $6x^2$, $3x$, 9
factors: 6 and x^2 , 3 and x
coefficient: 6, 3
constant term: 9
- expression: $((x+y)/2) - y/3 = (1/2)x + (1/6)y$
terms: $(1/2)x$, $(1/6)y$
factors: $1/2$ and x , $1/6$ and y
coefficients: $1/2$, $1/6$
constant term: none
- expression: $5x^3 + (6 - x^3) = 4x^3 + 6$
terms: $4x^3$, 6
factors: 4 and x^3
coefficient: 4
constant term: 6
- Answers may vary. Sample answer: $3x^3 + 6x^2 + 9x + 4$
- expression: $6x - 0.15(6x) = 5.1x$
term: $5.1x$
factors: 5.1 and x
coefficient: 5.1
constant term: none
- expression: $10x - 0.20(10x) + 3.99 = 8x + 3.99$
terms: $8x$, 3.99
factors: 8 and x
coefficient: 8
constant term: 3.99
- expression: $(30.24 - 2.24)/(x+1) = 28/(x+1)$
term: $28/(x+1)$
factors: 28 and $1/(x+1)$
coefficient: 28
constant term: none
- expression: $1/2(b_1 + b_2)h$ or $1/2(b_1)h + 1/2(b_2)h$
terms: $1/2(b_1)h$, $1/2(b_2)h$
factors: $1/2$, b_1 , h and $1/2$, b_2 , h
coefficients: $1/2$, $1/2$
constant term: none
- expression: $2\pi r^2 + 2\pi rh$
terms: $2\pi r^2$, $2\pi rh$
factors: 2 , π , r^2 and 2 , π , r , h
coefficients: 2π , 2π
constant term: none
- terms: $13x$, 20
factors: 13 and x
coefficient: 13
constant term: 20
- terms: $(4x^3)/5$, $9x$
factors: $4/5$ and x^3 , 9 and x
coefficients: $4/5$ and 9
constant term: none
- expression: $(x^2)/3 + 4$
terms: $(x^2)/3$, 4
factors: x^2 , $1/3$
coefficient: $1/3$
constant term: 4
- expression: $x^6 + 3x$
terms: x^6 , $3x$
factors: 3 and x
coefficient: 3
constant term: none
- Answers may vary. Sample answer:
 $12x^4 + 15x^3 + 18x^2 - 21x + 3$
- expression: $2x + 0.05(x) = 2.05x$
terms: $2.05x$
factors: 2.05 and x
coefficient: 2.05
constant term: none
- expression: $4x - 0.15(4x) + 4.85 = 3.4x + 4.85$
terms: $3.4x$, 4.85
factors: 3.4 and x
coefficient: 3.4
constant term: 4.85
- expression: $x + x + (x - 4) + (x - 4) = 2(x) + 2(x - 4) = 4x - 8$
terms: $4x$, -8
factors: 4 and x
coefficient: 4
constant term: -8
- expression: $5/9(F - 32) = (5/9F) - (160/9)$
terms: $5/9(F)$, $-160/9$
factors: $5/9$ and F
coefficient: $5/9$
constant term: $-160/9$

Practice 1.3.1 B: Identifying Terms, Factors, and Coefficients, p. U1-102

- terms: $14x^2$, $2x$, -9
factors: 14 and x^2 , 2 and x
coefficients: 14, 2
constant term: -9