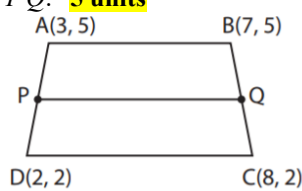


Monday	Tuesday	Wednesday	Thursday
<p><b>Simplify the expressions:</b></p> $(12a^5 - 6a - 10a^3) - (10a - 2a^5 - 14a^4)$ $14a^5 + 14a^4 - 10a^3 - 16a$ $(-x^4 + 13x^5 + 6x^3) + (6x^3 + 5x^5 + 7x^4)$ $18x^5 + 6x^4 + 12x^3$		<p>The vertices of parallelogram <math>CDEH</math> are <math>(-5, 5)</math>, <math>D(2, 5)</math>, <math>E(-1, -1)</math> and <math>H(-8, -1)</math>. What are the coordinates of <math>P</math>, the point of intersection of diagonals <math>\overline{CE}</math> and <math>\overline{DH}</math>? <math>(-3, 2)</math></p>	<p><b>Find the product:</b></p> $6v(2v + 3)$ $12v^2 + 18v$ $(2n + 2)(6n + 1)$ $12n^2 + 14n + 2$
<p>Kin is painting two walls of her bedroom. The area of one wall can be modeled by <math>3x^2 + 14</math>, and the area of the other wall can be modeled by <math>2x - 3</math>. What is the total area of the two walls?</p> $3x^2 + 2x + 11$	<p>A walkway surrounds a rectangular garden. The width of the garden is 8 feet, and the length is 6 feet. The width <math>x</math> of the walkway around the garden is the same on every side. Write an expression that represents the total area of the garden and walkway.</p> $4x^2 + 28x + 48$	<p><math>P</math> and <math>Q</math> are the midpoints of <math>\overline{AD}</math> and <math>\overline{BC}</math>. Find the length of <math>\overline{PQ}</math>. <b>5 units</b></p> 	<p>You have a coupon for \$8 off an oil change for your car. An oil change costs \$19.95, and a new oil filter costs \$4.95. You use the coupon for an oil change and filter. Before adding tax, how much should you pay?</p> $\$16.90$
<p><b>Find the product:</b></p> $(p - 1)^2$ $p^2 - 2p + 1$ $(x - 3)(x + 3)$ $x^2 - 9$	<p>Find the point of intersection of diagonals of the parallelogram whose vertices are <math>(-3, 2)</math>, <math>(-4, 4)</math>, <math>(1, 4)</math> and <math>(2, 2)</math>. <math>(-1, 3)</math></p>	<p>In a pet store, 15% of the animals are hamsters. If the store has 40 animals, how many of them are hamsters?</p> $6$	<p>The width of a rectangle is represented by <math>5x + 2y</math>, and the length is represented by <math>6y - 2x</math>. Write a polynomial that represents the perimeter.</p> $6x + 16y$
<p><b>Simplify:</b></p> $3(5x^2 + 2x - 4) - x(7x^2 + 2x - 3)$ $-7x^3 + 13x^2 + 9x - 12$ $15t(10y^3t^5 + 5y^2t) - 2y(yt^2 + 4y^2)$ $150y^3t^6 + 73y^2t^2 - 8y^3$		<p><b>Find the sum or difference:</b></p> $(5x^2 - 3x + 4) + (6x - 3x^2 - 3)$ $2x^2 + 3x + 1$ $(4x^3 - 3x^2 + 6x - 4) - (-2x^3 + x^2 - 2)$ $6x^3 - 4x^2 + 6x - 2$	
<p><b>Find the product:</b></p> $(x + 5)(x + 2)$ $x^2 + 7x + 10$ $(4n + 3)(n + 9)$ $4n^2 + 39n + 27$	<p><b>Find the product:</b></p> $(3x + 5)^2$ $9x^2 + 30x + 25$ $(8c + 3d)^2$ $64c^2 + 48cd + 9d^2$	<p>Write an expression that represents the area of a square that has a side length of <math>3x + 12</math> units.</p> $(9x^2 + 72x + 144) \text{ units}^2$	<p>The scale on a map shows that 1.5 cm is equal to 40 miles. If the distance on the map between two cities is 8 cm., about how many miles apart are the cities?</p> $213 \text{ miles}$
<p>The Loft Theater has a center seating section with <math>3c + 8</math> rows and <math>4c - 1</math> seats in each row. Write an expression for the total number of seats in the center section.</p> $12c^2 + 29c - 8$	<p><math>\triangle ABC</math> has vertices <math>A(1, 3)</math>, <math>B(-2, 5)</math>, and <math>C(8, 8)</math>. Find the perimeter of the triangle to the nearest tenth.</p> $\sqrt{13} + \sqrt{109} + \sqrt{74}$ $22.6 \text{ units}$	<p>Quadrilateral <math>JKLM</math> has vertices <math>J(-3, -4)</math>, <math>K(-1, 4)</math>, <math>L(4, 5)</math> and <math>M(6, -5)</math>. Find the perimeter of the quadrilateral to the nearest tenth.</p> $\sqrt{68} + \sqrt{26} + \sqrt{104} + \sqrt{82}$ $32.6 \text{ units}$	<p>Find the distance between <math>(3, -6)</math> and <math>(1, 4)</math> on a coordinate grid. Round to the nearest tenth.</p> $10.2$
<p>Joe and Josh each want to buy a video game. Joe has \$14 and saves \$10 a week. Josh has \$26 and saves \$7 a week. In how many weeks till they have the same amount? <b>4 weeks</b></p>	<p>Use substitution to solve the system of equations:</p> $y = -4x + 12$ $2x + y = 2$ $(5, -8)$	<p>Use substitution to solve the system of equations:</p> $x - 2y = -3$ $3x + 5y = 24$ $(3, 3)$	<p>An office building has two elevators. One elevator starts out on the 4th floor, 35 feet above the ground, and is descending at a rate of 2.2 feet per second. The other elevator starts out at ground level and is rising at a rate of 1.7 feet per second. Write a system of equations to represent the situation. <math>y = 35 - 2.2x</math>; <math>y = 1.7x</math></p>
<p>Solve the system by graphing:</p> $y = -3x + 10$ $y = x - 2$ $(3, 1)$	<p>The perimeter of two similar polygons are 250 centimeters and 300 centimeters, respectively. What is the scale factor between the two polygons? <b>5/6</b></p>	<p>A local charity has 60 volunteers. The ratio of boys to girls is 7:5. Find the number of boy and the number of girl volunteers.</p> $25 \text{ girls and } 35 \text{ boys}$	