


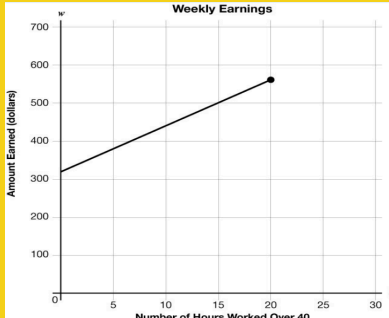


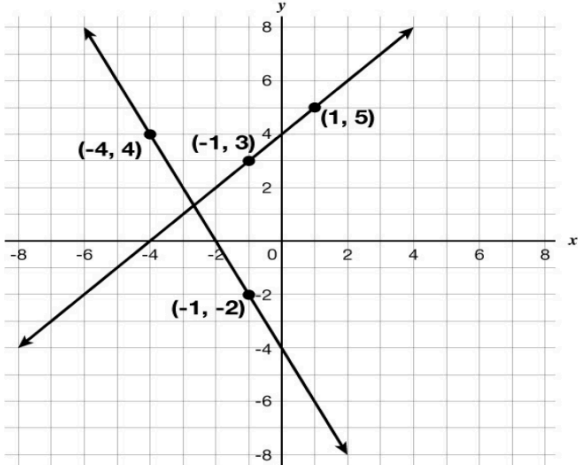
Unit 6 STAAR Review

Question	TEKS	Exam/ Question#	Unit
<p>1 Which expression is a factored form of $2x^2 - 25x + 63$?</p> <p>A $(x - 9)(2x - 7)$ [correct answer]</p> <p>B $(x - 7)(2x - 9)$</p> <p>C $(x + 7)(2x + 9)$</p> <p>D $(x + 9)(2x + 7)$</p>	A.10(E)	2021/ Question#18	6
<p>2 Which expression is equivalent to $(\frac{3}{2}p + 1)(\frac{1}{2}p + 3)$?</p> <p>A $\frac{3}{4}p^2 + 5p + 3$ [correct answer]</p> <p>B $\frac{3}{4}p^2 + 10p + 3$</p> <p>C $2p^2 + 3$</p> <p>D $4p^2 + 3$</p>	A.10(B)	2021/ Question#29	6
<p>3 Which expression is equivalent to $9n^2 - 25$?</p> <p>A $(3n - 5)^2$</p> <p>B $9(n - 4)^2$</p> <p>C $(3n + 5)(3n - 5)$ [correct answer]</p> <p>D $9(n + 4)(n - 4)$</p>	A.10(F)	2021/ Question#40	6

	Question	TEKS	Exam/ Question#	Unit
4	<p>Which expression is equivalent to $35m^2 - 63$?</p> <p>A $7m(5m - 9)$</p> <p>B $-7m(5m + 9)$</p> <p>C $7(5m^2 - 9)$ [correct answer]</p> <p>D $-7(5m^2 + 9)$</p>	A.10(D)	2021/ Question#48	6
5	<p>Which expression is equivalent to $(10 + 7r - r^2) + (-6r^2 - 18 + 5r)$?</p> <p>A $7r^2 + 2r - 8$</p> <p>B $-7r^2 + 12r - 8$ [correct answer]</p> <p>C $-7r^2 + 2r + 8$</p> <p>D $7r^2 + 12r + 8$</p>	A.10(A)	2019/ Question#16	6
6	<p>Which expression is equivalent to $(15a^0b^2c^{34})(3a^{16}b^{-29}c^0)$ for all values of a, b, and c where the expression is defined?</p> <p>A $\frac{18}{b^{58}}$</p> <p>B $\frac{45}{b^{58}}$</p> <p>C $\frac{45a^{16}c^{34}}{b^{27}}$ [correct answer]</p> <p>D $\frac{18a^{16}c^{34}}{b^{27}}$</p>	A.11(B)	2021/ Question#35	5

	Question	TEKS	Exam/ Question#	Unit										
7	<p>The table represents some points on the graph of linear function f.</p> <table border="1" data-bbox="272 401 979 533"> <tr> <td>x</td><td>03</td><td>2</td><td>5</td><td>11</td></tr> <tr> <td>Volume of Coral (cubic centimeters)</td><td>-130</td><td>0</td><td>78</td><td>234</td></tr> </table> <p>Which function represents f?</p> <p>A $f(x) = -26(2x - 1)$</p> <p>B $f(x) = -2(26x - 1)$</p> <p>C $f(x) = 13(x - 2)$</p> <p>D $f(x) = 26(x - 2)$ [correct answer]</p>	x	03	2	5	11	Volume of Coral (cubic centimeters)	-130	0	78	234	A.2(C)	2021/ Question#44	4
x	03	2	5	11										
Volume of Coral (cubic centimeters)	-130	0	78	234										
8	<p>A lifeguard earns \$320 per week for working 40 hours plus \$12 per hour worked over 40 hours. A lifeguard can work a maximum of 60 hours per week.</p> <p>Which graph best represents the lifeguard's weekly earnings in dollars for working h hours over 40?</p> <p>A</p> 	A.3(C)	2017/ Question#12	3										

Question	TEKS	Exam/ Question#	Unit
<div data-bbox="282 331 305 363">B</div> <div data-bbox="337 331 722 646"><p>Graph B shows a line on a coordinate plane. The x-axis is labeled 'Number of Hours Worked Over 40' and ranges from 0 to 30 with major grid lines every 5 units. The y-axis is labeled 'Amount Earned (dollars)' and ranges from 0 to 700 with major grid lines every 100 units. The line starts at the point (0, 300) and passes through the point (20, 480).</p></div> <div data-bbox="282 688 305 720">C</div> <div data-bbox="337 688 722 1003"><p>Graph C shows a line on a coordinate plane. The x-axis is labeled 'Number of Hours Worked Over 40' and ranges from 0 to 60 with major grid lines every 10 units. The y-axis is labeled 'Amount Earned (dollars)' and ranges from 0 to 700 with major grid lines every 100 units. The line starts at the origin (0, 0) and passes through the point (40, 480).</p></div> <div data-bbox="282 1050 305 1081">D</div> <div data-bbox="337 1050 722 1365"><p>Graph D shows a line on a coordinate plane. The x-axis is labeled 'Number of Hours Worked Over 40' and ranges from 0 to 30 with major grid lines every 5 units. The y-axis is labeled 'Amount Earned (dollars)' and ranges from 0 to 700 with major grid lines every 100 units. The line starts at the point (0, 300) and passes through the point (20, 560).</p></div> <div data-bbox="737 1346 959 1381">[correct answer]</div>			

	Question	TEKS	Exam/ Question#	Unit
9	<p>A system of equations is graphed on the grid.</p>  <p>Which system of equations does the graph represent?</p> <p>A $y = x + 4$[correct answer] $y = -2x - 4$</p> <p>B $y = -x - 4$ $y = 2x - 2$</p> <p>C $y = x - 4$ $y = -2x - 2$</p> <p>D $y = -x + 4$ $y = 2x - 4$</p>	A.2(I)	2019/ Question#30	2

	Question	TEKS	Exam/ Question#	Unit
10	<p>What is the equation in slope-intercept form of the line that crosses the x-axis at 36 and is perpendicular to the line represented by $y = -\frac{4}{9}x + 5$?</p> <p>A $y = \frac{4}{9}x - 16$</p> <p>B $y = \frac{9}{4}x + 81$</p> <p>C $y = \frac{4}{9}x + 16$</p> <p>D $y = \frac{9}{4}x - 81$ [correct answer]</p>	A.2(F)	2019/ Question#10	1