Hoover HS 09	Algebra I
Practice: Solve for x: $\sqrt{3x+5} - \sqrt{5x-9} = 0$	7
1.1 Simplify. $\left(\frac{\frac{x^m}{15z^5}}{\frac{x^{m-2}}{15z^5}}\right)^2$	$x^4$
1.2 Evaluate. $f(x) = -x^3 - 2x$ at $x = -4$	72
1.3 The product of two consecutive positive numbers is 462. Find the two numbers.	21,22
1.4 Solve for x: $5(x+4) - 6x = -24$	44
1.5 If $r = 3$ is a solution to $2r - qr^3 + 11 = 5$ , what is the value of q?	$\frac{4}{9}$
2.1 Evaluate. $f(x) = \left(\frac{1}{2}\right)^{x-1}$ for f(3)	$\frac{1}{4}$
2.2 Given $f(x, y) = x^2 - xy$ Evaluate $f(x, x - y)$	ху
2.3 What is the discriminate of $x^2 + 16x = -48$	64
2.4 What is the sum of the squares of the roots of: $2x^2 + 4x - 30 = 0$ ?	34
2.5 Express as a fraction in lowest terms: $.8\overline{3}$	$\frac{5}{6}$
3.1 What is 4 times the product of the roots for $4x^2 - 9x - 9 = 0$	-9
3.2 Solve for x: $\sqrt{\frac{x-4}{9}} = 7$	445
3.3 Simplify: $\frac{1+7[2^3+5^0(4-1)]}{3^2+2^2}$	6
3.4 Solve for x: $\left \frac{2}{3}x - \frac{1}{3}\right  \le \frac{1}{3}$	$0 \le x \le 1$
3.5 The ratio of the angles in a triangle is 3:1:5. What is the measure of the largest angle?	100°
4.1 Solve for x: $25^{(x+1)} \cdot 125^x = 25^{(3x-2)}$	6
4.2 Solve for x: $\frac{-10}{x-9} = \frac{x}{2}$	4 and 5
4.3 Simplify. $(2-\sqrt{5})(2+\sqrt{5})$	-1
4.4 If g (d) = 4d -15 and f (d) = $\frac{d^2}{3}$ . What is g(f(15)?	285
4.5 Solve for x: $5x^3 - 85x^2 = -360x$	0,8,9

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E.1 Find the slope of a line that is perpendicular to the line that passes	8
through (-3,2) and (5,-1).	$\overline{3}$
E.2 Convert into the form $Ax + By = C$ where A, B, & C are relatively prime integers and the coefficient of x is positive. $y-1 = -\frac{1}{2}(x-1)$	x + 2y = 3