Results on the Bar Exam of Law School Graduates

	Passed bar exam	Did not pass bar exam
Took review course	18	82
Did not take review course	7	93

25

The table above summarizes the results of 200 law school graduates who took the bar exam. If one of the surveyed graduates who passed the bar exam is chosen at random for an interview, what is the probability that the person chosen did not take the review course?

A) $\dfrac{18}{25}$

B) $\dfrac{7}{25}$

C) $\dfrac{25}{200}$

D) $\dfrac{7}{200}$

2-4 Notes (focus) due 9/30

2-3 Practice Assignment due 9/30 (focus)

Extension: 2-3 textbook exercises #17-30 due 9/30 (focus)

Take notes on your own

Template:

Title/Topic:

Essential Question:

Learning Goal:

Problems/Questions	Notes/work for problems here

What is the factored form of a quadratic function?

What does p and q stand for in the factored form?

Make three column table to compare vertex, standard, and factored form of quadratic functions

Convert to factored form:

$$f(x) = x^2 - 15x + 36$$

$$\begin{array}{c} 36 \\ -12 \diagdown -3 \\ -15 \end{array}$$

$$f(x) = 1(x - 12)(x - 3)$$

$$a(x - p)(x - q)$$

$$p = 12, \quad q = 3$$

Solve: #If Quadratic, make one side equal to 0! ☆

$$2x^2 + 9x = 5$$
$$ -5 \quad -5$$
$$2x^2 + 9x - 5 = 0$$

$a = 2 \longrightarrow$ Use ac-method!

$ac = (2)(-5) = -10$

$$\frac{-10}{9}$$

⑩   —①

$$(2x^2 + 10x) + (-1x - 5) = 0$$

$②x(x+5) \, ⊝(x+5)$

$$(x+5)(2x-1) = 0$$

Use
Zero Product Property,
(ZPP)

$$x + 5 = 0$$
$$ -5 \quad -5$$
$$\boxed{x = -5}$$

$$2x - 1 = 0$$
$$ +1 \quad +1$$
$$\frac{2x}{2} = \boxed{\frac{1}{2}}$$

Question 3

Thursday, September 26, 2019   7:13 AM

Solve.

$$3x^2 = -2x + 1 \qquad x = -1, \tfrac{1}{3}$$

$$3x^2 + 2x - 1 = 0$$

$$(3)(-1) = -3 \qquad \frac{3}{\diagup} \diagdown \frac{-3}{\diagup} \diagdown \frac{-1}{\diagup}$$
$$\qquad\qquad\qquad\qquad \frac{}{2}$$

$$\left(3x^2 + 3x\right) + \left(-1x - 1\right)$$

$$3x(x+1) - 1(x+1)$$

$$(x+1)(3x-1) = 0$$

$$x + 1 = 0 \qquad\qquad 3x - 1 = 0$$
$$\qquad\qquad\qquad\qquad \underline{+1 \quad +1}$$
$$\boxed{x = -1} \qquad\qquad \frac{3x}{3} = \boxed{\frac{1}{3}}$$

Write factored form

X-intercepts: $-2^{\nearrow p}$, $5^{\nearrow 2}$

point $(4^x, -12)$

$f(x) = a(x-p)(x-2)$

$ = a(x-(-2))(x-5)$

$-12 = a \cdot (4+2)(4-5)$

$-12 = a \cdot 6 \cdot (-1)$

$-12 = -6a \Rightarrow a = 2$

$f(x) = 2(x+2)(x-5)$

Question 5

Write factored form:

X-intercepts: $1, -4$

Point $(2, 1)$