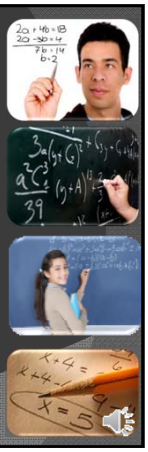
Algebra 1

Point-Slope Form; Standard Form



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I don't understand

Sorry I don't quite follow...

I'm not sure I got that...

I'm not with you.....

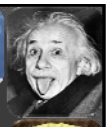
Sorry it's not so clear....

I don't know what you mean...

Do you mean.....?

Perhaps I have misunderstood.....

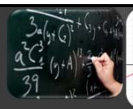
What do you mean...?

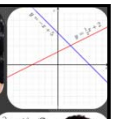


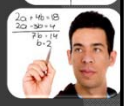
Write and graph equations in:

1. Point-Slope Form
2. Standard Form

Overview

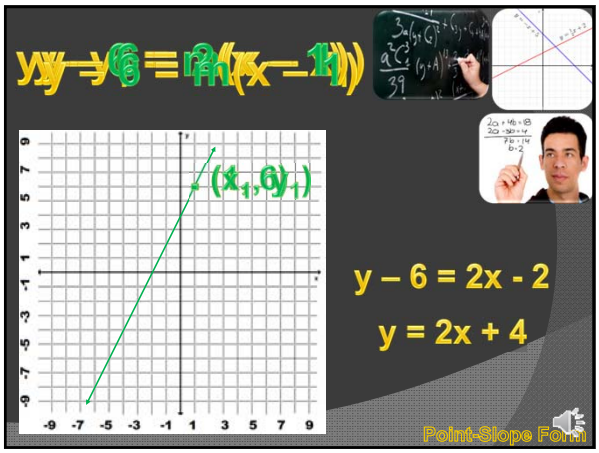


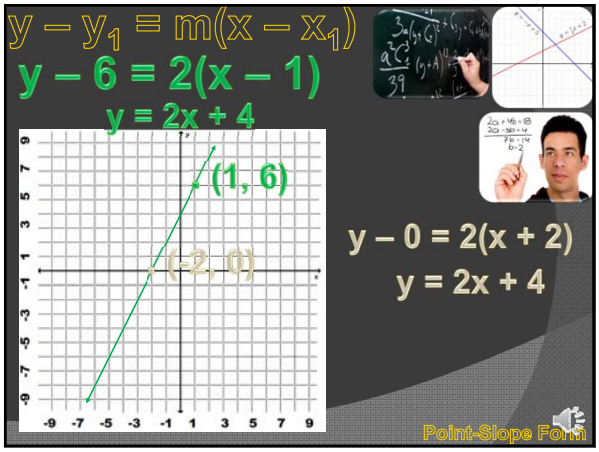


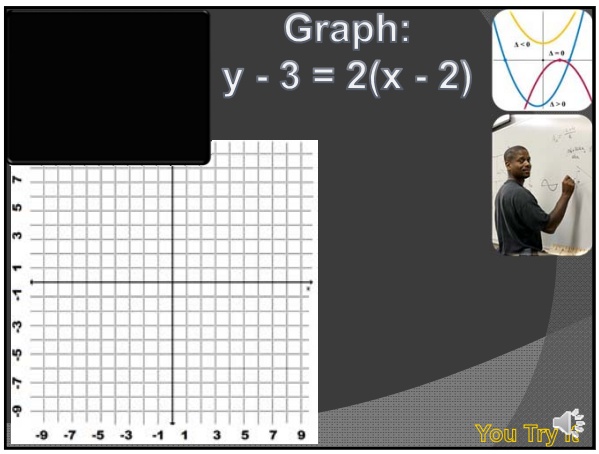


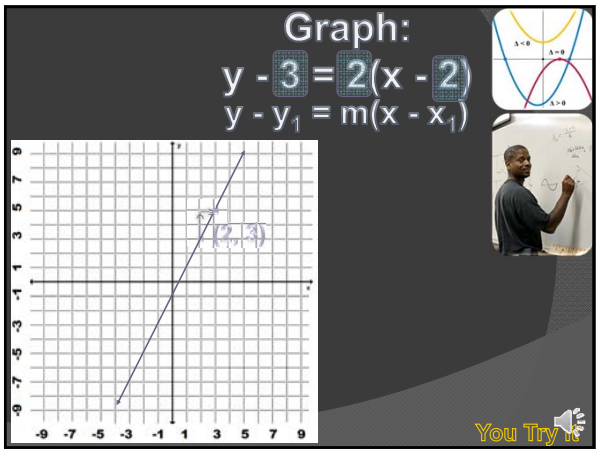
$$\frac{y - y_1}{(x - x_1)} = m$$

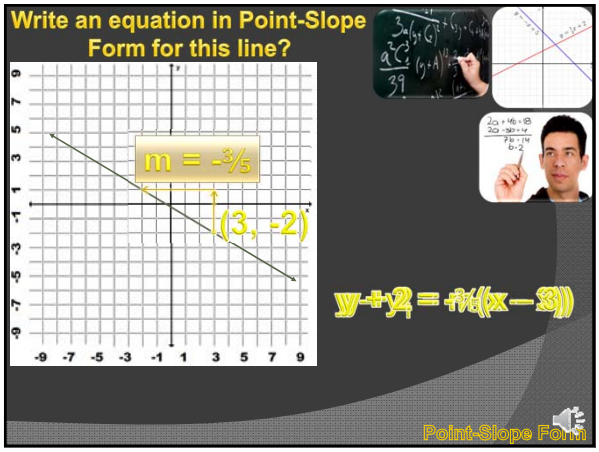
Point-Slope Form

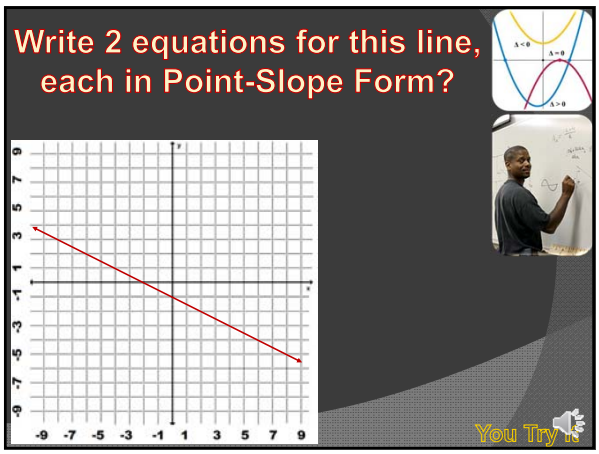

y – y1 = m(x – x1)
(x1, y1)
y – 6 = 2x - 2
y = 2x + 4
Point-Slope Form


y – y1 = m(x – x1)
y – 6 = 2(x – 1)
y = 2x + 4
(1, 6)
(-2, 0)
y – 0 = 2(x + 2)
y = 2x + 4
Point-Slope Form

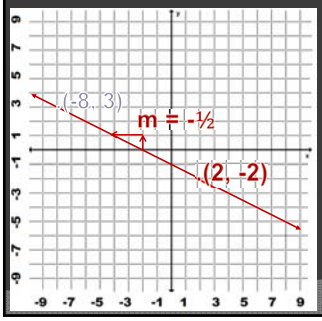

Graph:
y - 3 = 2(x - 2)
You Try It

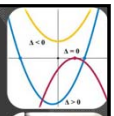

Graph:
y - 3 = 2(x - 2)
y - y1 = m(x - x1)
(2, 3)
You Try It


Write an equation in Point-Slope Form for this line?
m = -3/5
(3, -2)
Point-Slope Form


Write 2 equations for this line, each in Point-Slope Form?
You Try It

Write 2 equations for this line, each in Point-Slope Form?



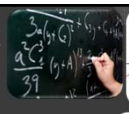


$y + 2 = -\frac{1}{2}(x - 2)$

$y - 3 = -\frac{1}{2}(x + 8)$

You Try It

$Ax + By = C$



$y = 4x - 6$

$-4x + y = 4x - 4x - 6$

$-4x + y = -6$

$y + 2 = 4(x - 1)$

$y + 2 = 4x - 4$

$y + 2 - 2 = 4x - 4 - 2$

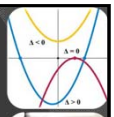
$y - 4x = 4x - 4x - 6$

$-4x + y = -6$

Standard Form

Convert to Standard Form

$y - 2 = 3(x - 4)$



You Try It

Convert to Standard Form

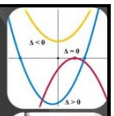
$y - 2 = 3(x - 4)$

$y - 2 = 3x - 12$

$y = 3x - 12 + 2$

$-3x + y = -10$

$Ax + By = C$



You Try It

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