Graphing parabolas with focus and directrix worksheet

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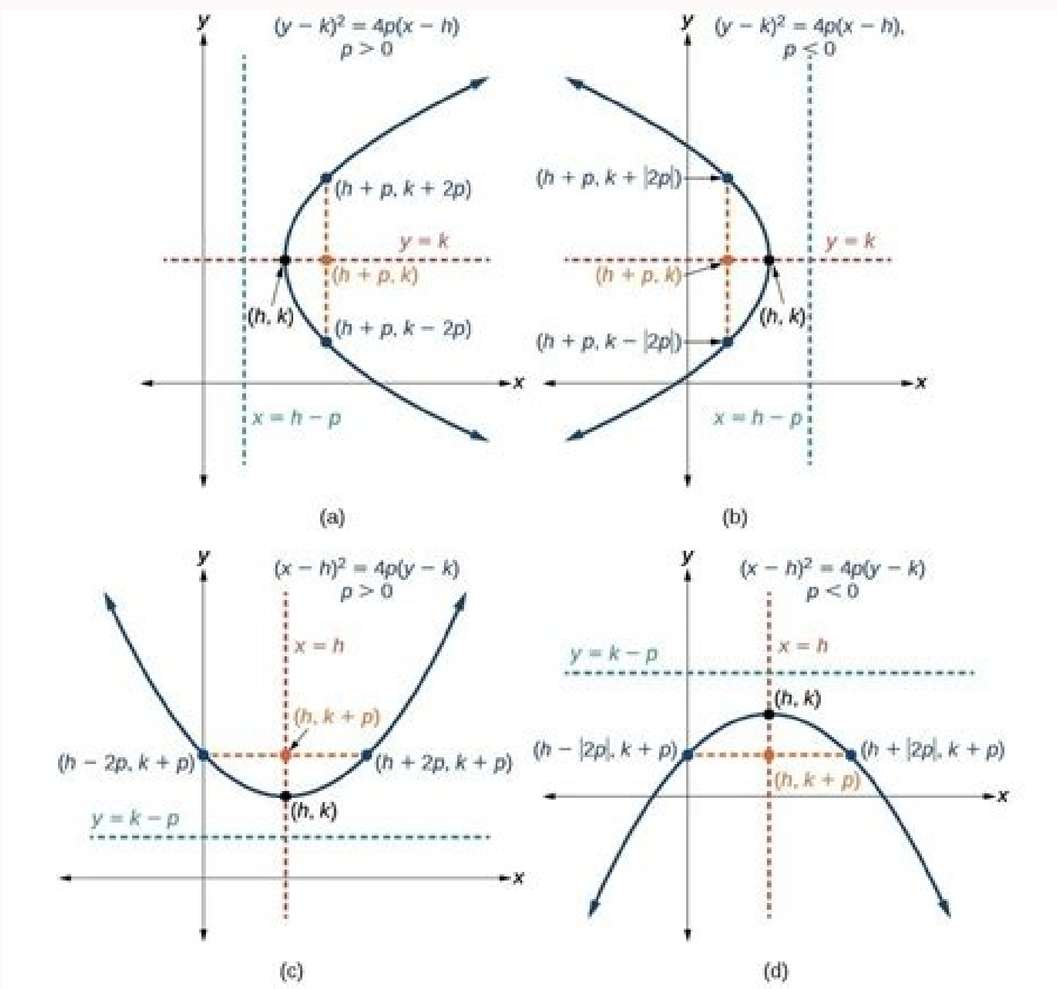
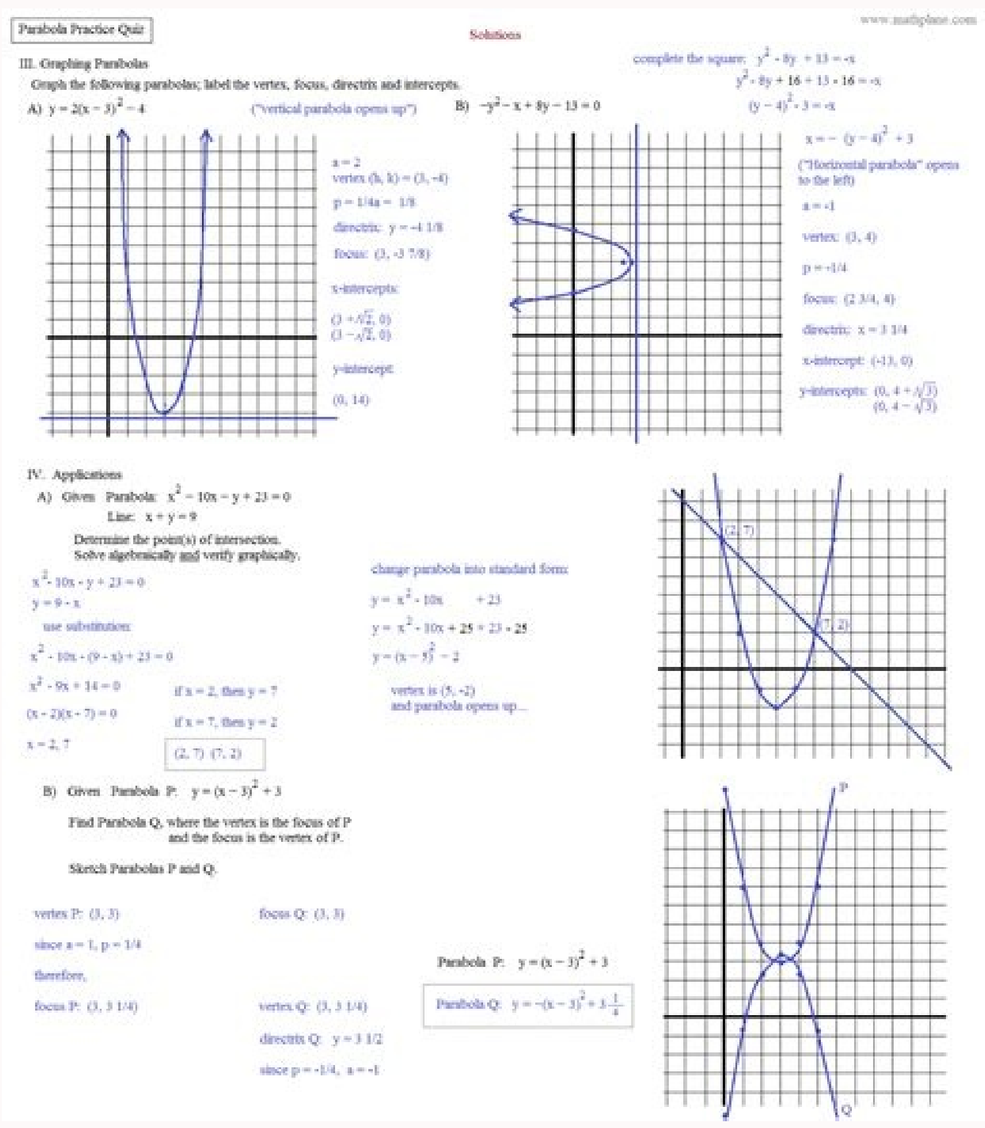



Parabola Practice Quiz

Solutions

www.mathplane.com

III. Graphing Parabolas

Graph the following parabolas; label the vertex, focus, directrix and intercepts.

A) $y = 2(x - 3)^2 - 4$ ("vertical parabola opens up")

a = 2
vertex (h, k) = (3, −4)
p = 1/4a = 1/8
directrix: y = −4 1/8
focus: (3, −3 7/8)
x-intercepts:
$(3 + \sqrt{2}, 0)$
$(3 - \sqrt{2}, 0)$
y-intercept:
(0, 14)

B) $-y^2 - x + 8y - 13 = 0$

complete the square: $y^2 - 8y + 13 = -x$
$y^2 - 8y + 16 + 13 - 16 = -x$
$(y - 4)^2 - 3 = -x$
$x = -(y - 4)^2 + 3$
("horizontal parabola" opens to the left)
a = -1
vertex: (3, 4)
p = -1/4
focus: (2 3/4, 4)
directrix: x = 3 1/4
x-intercept: (-13, 0)
y-intercepts: $(0, 4 + \sqrt{3})$
$(0, 4 - \sqrt{3})$

IV. Applications

A) Given Parabola: $x^2 - 10x - y + 23 = 0$
Line: $x + y = 9$

Determine the point(s) of intersection.
Solve algebraically and verify graphically.

$x^2 - 10x - y + 23 = 0$
$y = 9 - x$
use substitution:
$x^2 - 10x - (9 - x) + 23 = 0$
$x^2 - 9x + 14 = 0$
$(x - 2)(x - 7) = 0$
$x = 2, 7$

if x = 2, then y = 7
if x = 7, then y = 2

(2, 7) (7, 2)

change parabola into standard form:
$y = x^2 - 10x + 23$
$y = x^2 - 10x + 25 + 23 - 25$
$y = (x - 5)^2 - 2$
vertex is (5, -2)
and parabola opens up...

B) Given Parabola P: $y = (x - 3)^2 + 3$

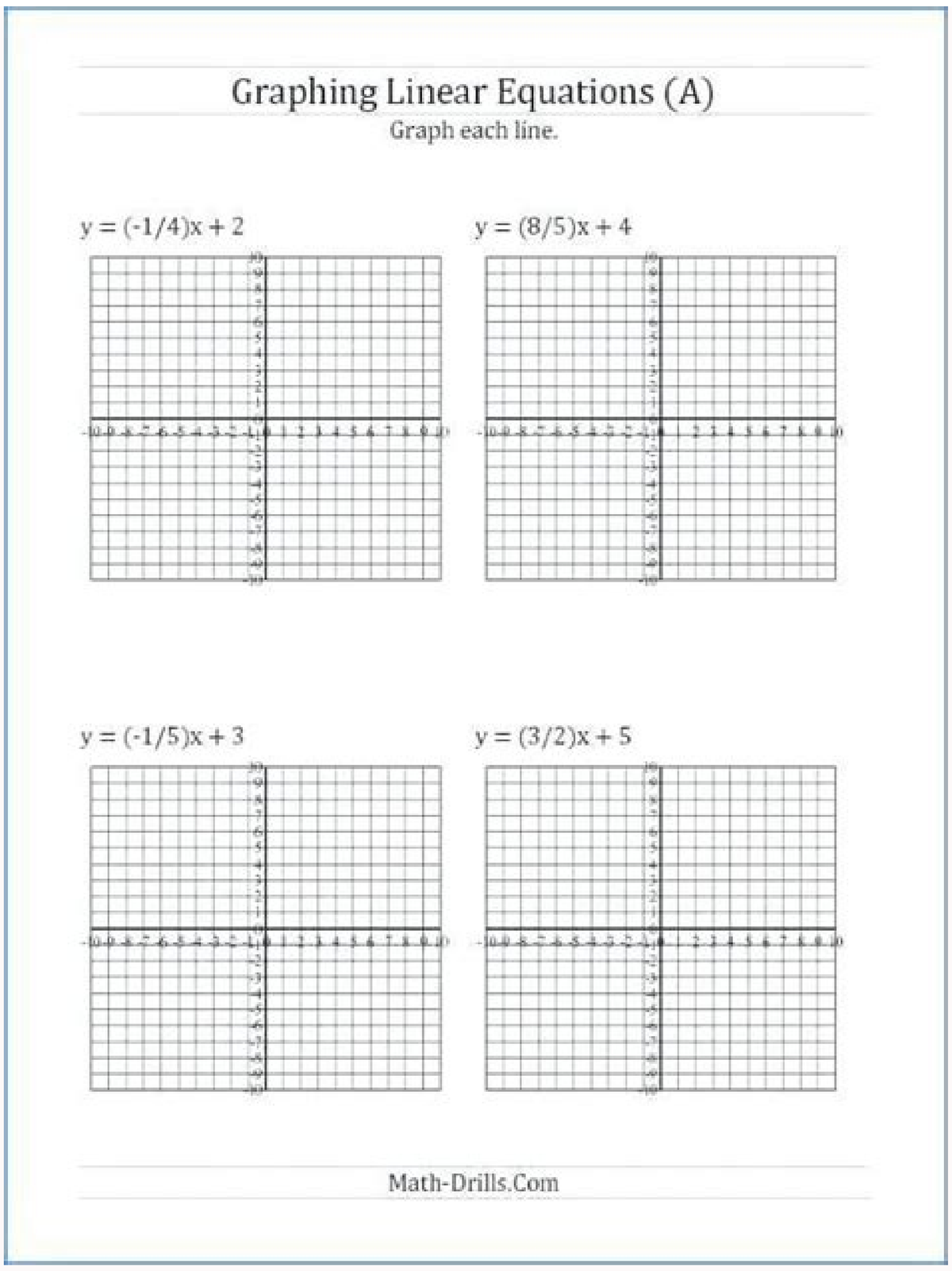
Find Parabola Q, where the vertex is the focus of P and the focus is the vertex of P.

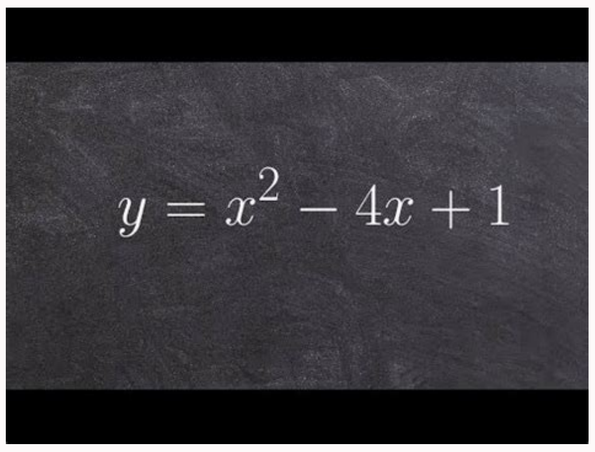
Sketch Parabolas P and Q.

vertex P: (3, 3)
since a = 1, p = 1/4
therefore,
focus P: (3, 3 1/4)

focus Q: (3, 3)
vertex Q: (3, 3 1/4)
directrix Q: y = 3 1/2
since p = -1/4, a = -1

Parabola P: $y = (x - 3)^2 + 3$
Parabola Q: $y = -(x - 3)^2 + 3\frac{1}{4}$





How to write an equation of a parabola with vertex and directrix. How to find the equation of a parabola with the focus. How to find the parabola with vertex and focus.

If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked. Worksheet on Finding Vertex Focus Directrix Latus Rectum of Parabola :In this section, we will see how to find the vertex, focus, directrix and length of latus rectum of parabola.(1) Find the focus, vertex, equation of directrix and length of the latus rectum of the parabola y2 = 12xSolution(2) Find the focus, vertex, equation of directrix and length of the latus rectum of the parabolay2 = -8xSolution(3) Find the focus, vertex, equation of directrix and length of the latus rectum of the parabolay2 - 8x - 2y + 17 = 0Solution(4) Find the focus, vertex, equation of directrix and length of the latus rectum of the parabolax2 = 5ySolution(5) Find the focus, vertex, equation of directrix and length of the latus rectum of the parabolax^2 - 8y - 2x + 17 = 0Solution(6) Find the focus, vertex, equation of directrix and length of the latus rectum of the parabola x2 = -16y Solution(7) Find the focus, vertex, equation of directrix and length of the latus rectum of the parabolax2 + 4y - 6x + 17 = 0Solution After having gone through the stuff given above, we hope that the students would have practiced how to find the vertex, focus directrix and latus rectum of the parabola.Apart from the stuff given in this section, if you need any other stuff in math, please use our google custom search here. Kindly mail your feedback to v4formath@gmail.comWe always appreciate your feedback. ©All rights reserved. onlinemath4all.com If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked.

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