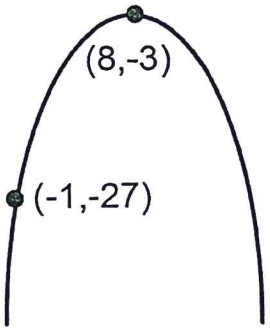
Algebra 2 Bellwork Monday, November 16, 2015

1. Write the equation of this quadratic in Vertex Form:



2. Factor each completely.

a)
$4d^3 - 8d^2 - 96d$

b)
$12c^3 - 243c$

c)
$6m^5 - 96m$

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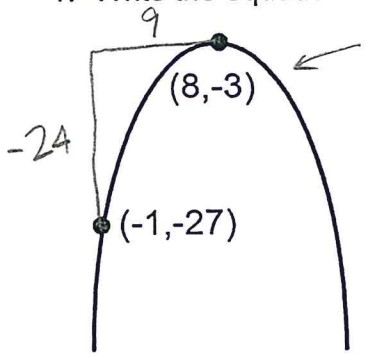
Answers

1. Write the equation of this quadratic in Vertex Form:



8RT 3DOWN

parent $\frac{81}{9}$

$a = \frac{-24}{81} = \frac{-8}{27}$

$y = \frac{-8}{27}(x-8)^2 - 3$

2. Factor each completely.

a)
$4d^3 - 8d^2 - 96d$

$4d(d^2 - 2d - 24)$

$4d(d-6)(d+4)$

-24
-6 4
-2

b)
$12c^3 - 243c$

$3c(4c^2 - 81)$

$3c(2c+9)(2c-9)$
or
$3c(2c \pm 9)$

c)
$6m^5 - 96m$

$6m(m^4 - 16)$

$6m(m^2+4)(m^2-4$

$6m(m^2+4)(m+2)(m-2$