characteristics.

Graph
$$y = -2(x+1)^2 + 3$$
. State the important

© GRAPHING QUADRATIC FUNCTIONS

Graph $y = -2(x + 1)^2 + 3$. State the important characteristics.

SOLVING QUADRATICS 1.
$$x^2 = 12x + 14$$
2. $-3x^2 + 2x - 1 = 0$

© SOLVING QUADRATICS

1.
$$x^2 = 12x + 14$$

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

$$0.0 - 18x^2 - 50$$

3 SOLVING QUADRATICS PART 2
$$1.3x^2 + 18x = -60$$

3 SOLVING QUADRATICS PART 2

1.
$$3x^2 + 18x = -60$$

$$2. \ 0 = 18x^2 - 50$$

$$4x = x^2 - x^2 - x^2 = 0$$
 .1. $5x - x^2 - x^2 = 0$.2

SOLVING QUADRATICS PART 3

Solve

SOLVING QUADRATICS PART 3 Solve:

1.
$$5 + 4(x + 3)^2 = 4$$

2.
$$0 = x^2 - 2x - 35$$

$$(i2 - 9) - (i + 8 -) \cdot 2 \qquad (i + 4) \cdot (i + 4) \cdot 1$$

$$\frac{1}{i4} \cdot 2 \qquad (i8 - 4) + (i + 4) \cdot 4 \qquad \frac{i9 + 4}{i5 - 5} \cdot 5$$

Simplify:

© COMPLEX NUMBERS

COMPLEX NUMBERS

Simplify:

1.
$$(2-5i)(6+i)$$

1.
$$(2-5i)(6+i)$$
 2. $(-3+i)-(9-2i)$

3.
$$\frac{4+9i}{2-2i}$$

4.
$$(6+i)+(4-3i)$$
 5. $\frac{1}{4i}$

5.
$$\frac{1}{4i}$$

characteristics,

Graph
$$f(x) = \frac{1}{3}(x-5)(x+1)$$
. State the important

© GRAPHING PART 2

Graph $f(x) = \frac{1}{3}(x-5)(x+1)$. State the important characteristics.

Graph $f(x) = 2x^2 + 8x + 1$. State the important characteristics.

important characteristics.

4. An object is launched upward at a velocity of 32 ft/s from a height of 266 feet. When is it 10 feet from the ground.

(round your answers to the nearest 10th)
3. Find the time it takes for an object to hit the ground that is dropped from a height of 500 feet.

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(round your answers to the nearest 10th)

- 1. Find the time it takes for an object to hit the ground that is dropped from a height of 500 feet.
- 2. An object is launched upward at a velocity of 32 ft/s from a height of 266 feet. When is it 10 feet from the ground.

9 FIND THE ERROR

Explain the error that was made in each problem, then find the correct answer:

1.Write in standard form: $\frac{5}{10+2i}$

$$\frac{5}{10+2i} \cdot \frac{(10-2i)}{(10-2i)}$$

$$= \frac{50-10i}{100-2i^2}$$

$$= \frac{50-10i}{100+2}$$

$$= \frac{50-10i}{102}$$

$$= \frac{25}{51} - \frac{5}{51}i$$

2. Find the zeros of the function $y = 2(x + 2)^2 - 72$

$$y = 2(x+2)^{2} - 72$$

$$0 = 2(x+2)^{2} - 72$$

$$72 = 2(x+2)^{2}$$

$$36 = (x+2)^{2}$$

$$6 = (x+2)$$

$$x = 4$$