x= 0, x = 4

Q

Solve: 6x2 = 42x - 72

x = 4, x = 3

U

Factor: 5x2y3 – 15xy5 + 20xy

5xy(xy2 – 3y4 + 4)

A

|  |  |
| --- | --- |
| x | y |
| 0 | 3 |
| 4 | 5 |
| 6 | 3 |

Greg went to the local skate park to practice his jumps. The path of his jump is given below. How long was Greg’s Jump?

7.58 feet

D

Find the zeros of

y = 2x2 – 20x + 50

x = 5

S

Greg went to the local skate park to practice his jumps. The path of his jump is given below. How high was Greg’s Jump?

|  |  |
| --- | --- |
| x | y |
| 0 | 3 |
| 4 | 5 |
| 6 | 3 |

5.25 feet

R

Find the vertex for

y = x2 – 6x + 2

(3, -7)

T

Factor: 4x2 – 27x – 7

(4x + 1) (x – 7)

H

Greg went to the local skate park to practice his jumps. The path of his jump is given below. How high was the ramp?

|  |  |
| --- | --- |
| x | y |
| 0 | 3 |
| 4 | 5 |
| 6 | 3 |

3 ft

E

Solve by factoring:

x2 + 17x = -16

x = -16, x = -1

M

Keith and Dan are trying to see who can throw the football better. What is the difference between the highest and the lowest throws?

|  |  |
| --- | --- |
| Time | Height |
| .5 | 12 |
| 1 | 34 |
| 2 | 54 |
| 3 | 42 |

Keith: Dan:

y = -16x2 + 20x + 2

46 feet

A

Solve the following:

6x2 = 24

x = 2, x = -2

X

Solve by factoring:

8x2 = 32x