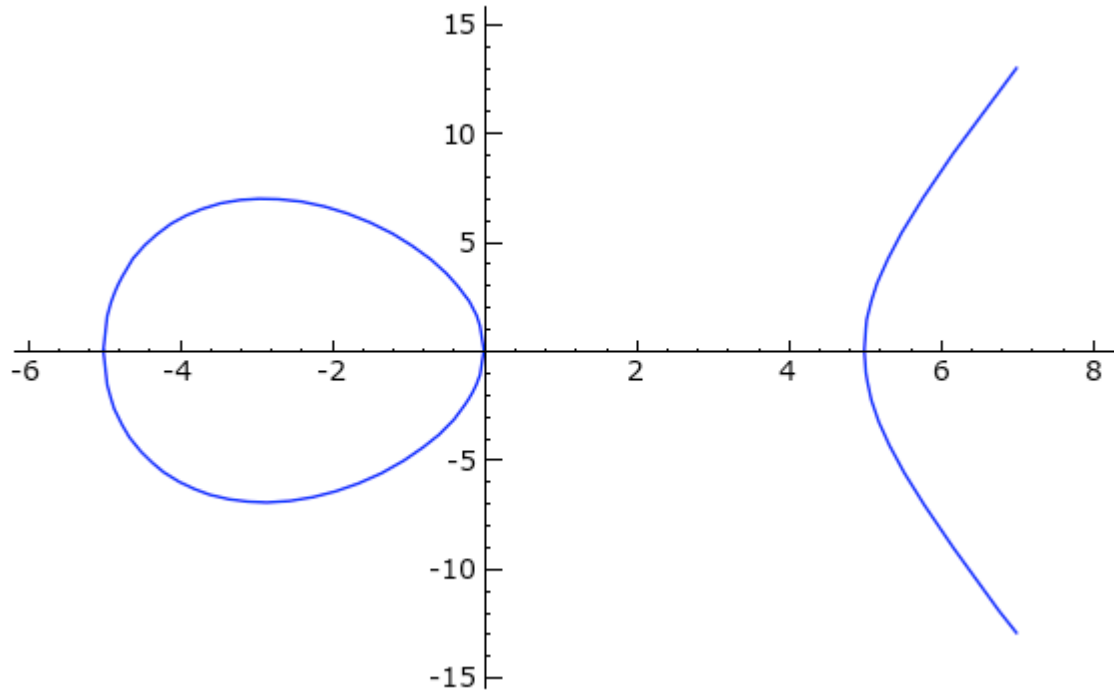


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Hi-Res Fonts for Printing button on the jsMath control panel.

Is 5 a congruent number?

```
E=EllipticCurve([-25,0])
E.plot()
```



```
E.torsion_order()
```

4

```
E.rank()
```

1

```
E.simon_two_descent()
```

(1, 3, [(5 : 0 : 1), (0 : 0 : 1), (-4 : 6 : 1)])

```
x=-4
```

```
y=6
```

```
n=5
```

```
y^2==x^3-n^2*x
```

True

$$a = (x^2 - n^2) / y$$

a

$$-3/2$$

$$b = (2 * n * x) / y$$

b

$$-20/3$$

$$c = (x^2 + n^2) / y$$

c

$$41/6$$

$$1/2 * a * b$$

$$5$$

$$a^2 + b^2 == c^2$$

True