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### 3. Practice Parallelograms

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Recitation due Sep 15, 2021 20:30 IST

Area of Parallelogram



PROFESSOR: Hello, and welcome back to recitation.

I'd like to work this problem with you, in which we're going to use determinants to compute the area of a parallelogram sitting in the plane.

So why don't you take a moment to-- why don't you take some time to work this out?

**And we'll check back, and you can see how I did it.**

▶

0:22 / 0:22

▶

2.0x

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Area of a parallelogram

1/1 point (graded)

Find the area of a parallelogram with corners at the points  $(1, 1)$ ,  $(7, 2)$ ,  $(12, 4)$ ,  $(6, 3)$ .

Area =

✔ Answer: 7

The answer is given in the following video.

Solution:

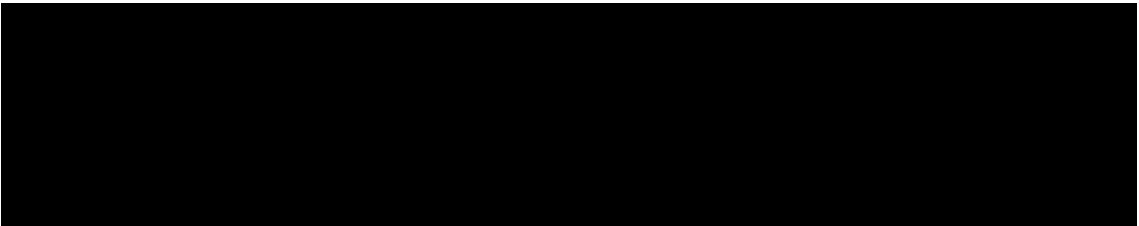
$\begin{vmatrix} 6 & 1 \\ 5 & 2 \end{vmatrix} = 7$  so the desired area is **7**.

Submit

You have used 1 of 5 attempts

📘 Answers are displayed within the problem

Area of Parallelogram Solution



And of course, we want our area to be positive.

So we would just choose 7.

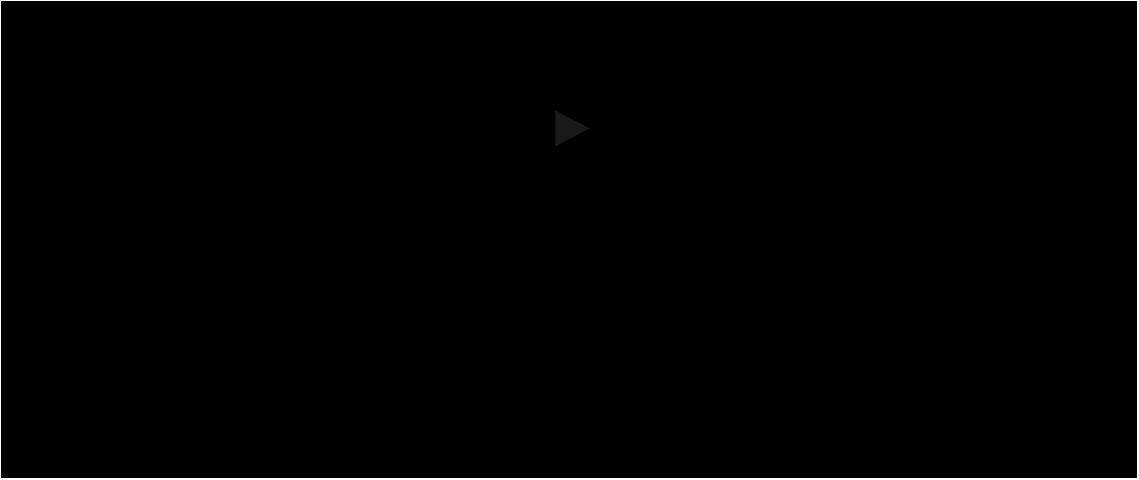
So let me just go through the one tricky--

the one

is the or

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▶

2:47 / 2:47

▶

2.0x

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parallelgram are not what  
are important for the area.  
What's important is the vectors  
which  
connect the two of our endpoints  
together.  
And so we computed those 6, 1, and  
5, 2,  
and then taking their determinant  
gives us the area of the  
parallelgram.  
OK, I'll leave it at that.

Video

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