Announcements

- No quiz this reekerid
- Reply to my email with your mock exam and answer key. (No later than Monday)

Also specify if you would
like me to match you. (I will do the matching. on Thesclay)

- Next week (RRR) my section times (1-3 PM PT) will be converted to O H
The usual o. 4 will still take place
15.9 \# 11

$$
\begin{array}{ll}
y=2 x-1 & y=1-x \\
y=2 x+1 & y=3-x
\end{array}
$$

$$
-1 \leq 2 x-y \leq 1 \quad 1 \leq x+y \leq 3
$$

$y=2 x-y \quad v=x+y$
Soke for $x$ y
 Hiv.
\#1)

- y


$$
\begin{aligned}
\int_{a}^{b} f(t) g^{\prime}(f) d t= & =A^{y} \\
& =\text { Arex we wart } \\
&
\end{aligned}
$$

\#2) Analogy: $y=f(x)$

$$
\begin{aligned}
& y=f(x-3) \quad \text { moves to right } \\
& \text { by } 3 \text {. } 1 \text { in the } \\
& \\
& r=f(0) \quad \text { positive } \\
& \text { (ccu) }
\end{aligned}
$$

1) This is not just a reparametrization:

$$
\begin{array}{ll}
r=f(\theta) & r=f(\theta-\pi / 3) \\
x=f(\theta) \cos \theta & \\
y=f(\theta) \sin \partial & y=f(\theta-\pi / 3) \sin \theta
\end{array}
$$

\#3)


First comment:
The answer must be a multiple. of $\pi$

\#4) $\vec{u} \cdot \vec{v}$ is a scalar and is 0 when $\vec{U}, \vec{v}$ perpendiontar.
\#5)

(Nore of the zovive)
\#6)
 $|\overrightarrow{A B} \times \overrightarrow{A D}|$ gives anea of 5
But astually,
So does $|\overrightarrow{A B} \times \overrightarrow{A C}|$ for exumple.

1) can see this germetrically or
2) verity ikgbiaically:

$$
=0
$$

$$
|\overrightarrow{A B} \times(\overrightarrow{A D}+\overrightarrow{D C})|=|\overrightarrow{A B} \times \overrightarrow{A D}+\overrightarrow{A B} \times \overrightarrow{D C}|
$$

(All three answer choices work)

You ran definitely do 7.8 jot by setting up systems of equations and trying to soke, but here ave conceptual ways of approaching then:
\#1)
No $b / c \quad\langle 1,1,-1\rangle$ is not perpendicular to $\langle 2,1,3\rangle$ (check $w$ ) dot product)
\# 8$)$
solutions forme line
$\langle 1,1,-1\rangle$ parallel to $\langle 2,1,3\rangle$

