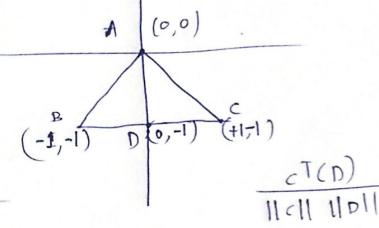
$$\frac{BD}{DC} = \frac{AB}{BC}$$

$$\cos BAD = \frac{(A-B)^{T}(A-D)}{\|A-B\|\|\|A-D\|\|}$$

$$\cos BAD = \frac{(A-B)^{T}(A-D)}{\|A-B\|\|\|A-D\|\|} \cos cAD = \frac{(A-C)^{T}(A-D)}{\|A-C\|\|\|A-D\|\|}$$

$$= \binom{6}{6} = \frac{(B)^{T}(D)}{\|B\|\|\|D\|\|}$$

$$= \binom{6}{10} = \frac{(A-C)^{T}(A-D)}{\|A-C\|\|\|A-D\|\|}$$



$$\frac{B^{\mathsf{T}}(\mathsf{D})}{|\mathsf{IIBII}||\mathsf{DII}|} = \frac{9}{(3)(\mathsf{IIDII})}$$

$$\frac{cT(0)}{||c|| ||D||} = \frac{15}{(5) ||D||} \Rightarrow \frac{8}{\text{equal}}$$

$$\frac{B^{T}(D)}{||B|| ||D||} = \frac{9}{(3)(||D||)} B(0,-3) \frac{12}{8} (\frac{3}{2},-3) \frac{20}{8} C(4,-3)$$

A(0,0)