

CCP PROGRAMS

CAREER & COLLEGE PROMISE COLLEGE TRANSFER PATHWAY LEADING TO THE ASSOCIATE IN ENGINEERING

1.
$$\frac{1}{2} (f_1 + f_2) + \frac{1}{4} (f_1 - f_2) \sin \theta$$

$$= \frac{1}{4} (2f_1 + f_2 + f_1 - f_2) + \frac{1}{4} (f_1 - f_2) \sin \theta$$

$$= \frac{1}{4} (3f_1 + f_2) + \frac{1}{4} (f_1 - f_2) \sin \theta$$

2.
$$f_1 \cos \theta + f_2 \sin \theta = 0$$

$$\frac{1}{2} (f_1 + f_2) \cos \theta + \frac{1}{4} (f_1 - f_2) \sin \theta = 0$$

$$\frac{1}{4} (2f_1 + f_2 + f_1 - f_2) \cos \theta + \frac{1}{4} (f_1 - f_2) \sin \theta = 0$$

$$\frac{1}{4} (3f_1 + f_2) \cos \theta + \frac{1}{4} (f_1 - f_2) \sin \theta = 0$$

$$(3f_1 + f_2) \cos \theta + (f_1 - f_2) \sin \theta = 0$$

$$3f_1 \cos \theta + f_2 \cos \theta + f_1 \sin \theta - f_2 \sin \theta = 0$$

$$f_1 (3 \cos \theta + \sin \theta) + f_2 (\cos \theta - \sin \theta) = 0$$

$$f_1 (3 \cos \theta + \sin \theta) = f_2 (\sin \theta - \cos \theta)$$

$$\frac{f_1}{f_2} = \frac{\sin \theta - \cos \theta}{3 \cos \theta + \sin \theta}$$

3.
$$f_1 \sin \theta + f_2 \cos \theta = 0$$

$$\frac{1}{2} (f_1 + f_2) \sin \theta + \frac{1}{4} (f_1 - f_2) \cos \theta = 0$$

$$\frac{1}{4} (2f_1 + f_2 + f_1 - f_2) \sin \theta + \frac{1}{4} (f_1 - f_2) \cos \theta = 0$$

$$\frac{1}{4} (3f_1 + f_2) \sin \theta + \frac{1}{4} (f_1 - f_2) \cos \theta = 0$$

$$(3f_1 + f_2) \sin \theta + (f_1 - f_2) \cos \theta = 0$$

$$3f_1 \sin \theta + f_2 \sin \theta + f_1 \cos \theta - f_2 \cos \theta = 0$$

$$f_1 (3 \sin \theta + \cos \theta) + f_2 (\sin \theta - \cos \theta) = 0$$

$$f_1 (3 \sin \theta + \cos \theta) = f_2 (\cos \theta - \sin \theta)$$

$$\frac{f_1}{f_2} = \frac{\cos \theta - \sin \theta}{3 \sin \theta + \cos \theta}$$

4.
$$f_1 \cos \theta + f_2 \sin \theta = 0$$

College Transfer Pathways

1.
$$\frac{1}{2} (f_1 + f_2) + \frac{1}{4} (f_1 - f_2) \sin \theta$$

$$= \frac{1}{4} (2f_1 + f_2 + f_1 - f_2) + \frac{1}{4} (f_1 - f_2) \sin \theta$$

$$= \frac{1}{4} (3f_1 + f_2) + \frac{1}{4} (f_1 - f_2) \sin \theta$$

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