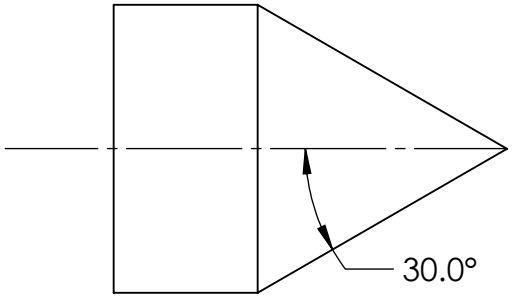
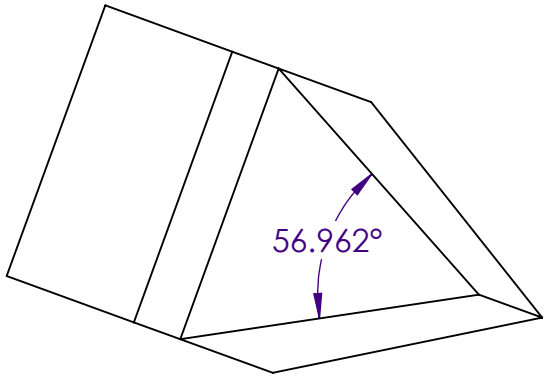
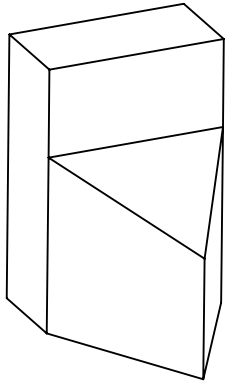
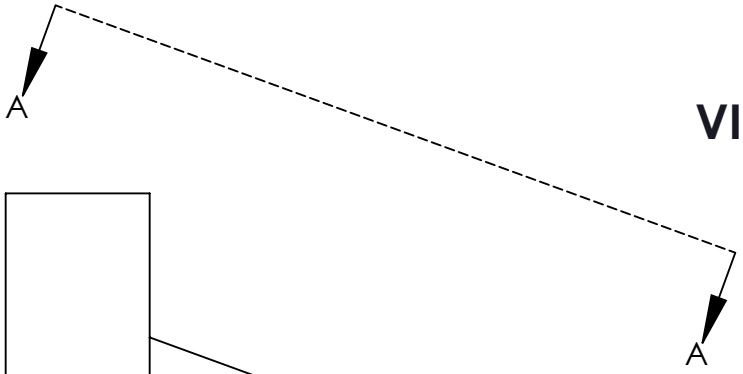
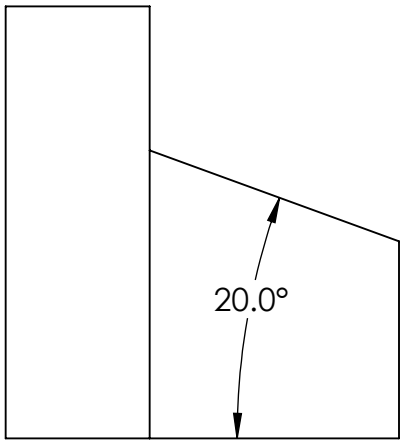








VIEW A-A



FORMULA:

TAN C = TAN A * COS B

A = 30°
B = 20°

C = 28.481°

C x 2 = 56.962°

NOTES:

1. SEE SHEET 2 FOR FORMULA DERIVATION.

	A		Initial Release	NWE	4/15/15	
PART #	REV #	ECN	CHANGE DESCRIPTION	REV. BY	ECN DATE	CHECKED

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES FOR BOTH SYSTEMS ARE:

ENGLISH:		METRIC:	
FRACTIONS	DECIMALS	DECIMALS	ALL ANGLES
± 1/32	.XX ± .01 .XXX ± .002 .XXXX ± .0002	X.X ± 0.1 X.XX ± 0.01	.X ± .1° .XX ± .05°

MATERIAL XXXXX

FINISH 32

DRAWN BY NWE

DATE XX/XX/2015

DO NOT SCALE DRAWING

APPROVED

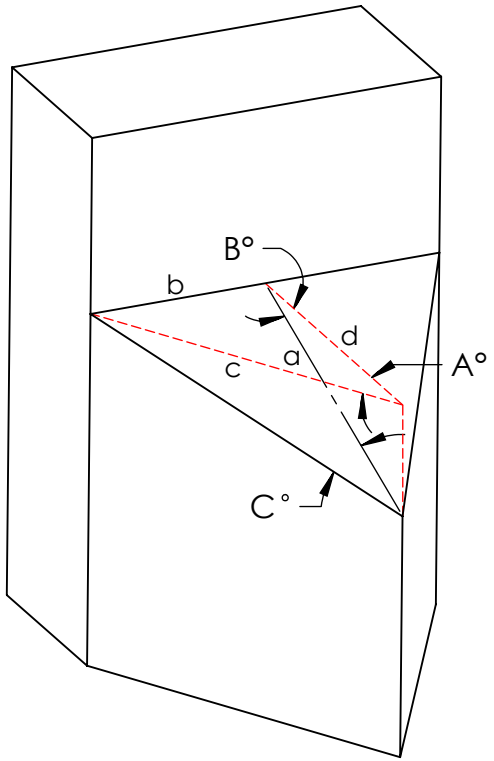
DATE

Raystown Precision Tool
1822 Washington Street
Huntingdon, PA 16652

SIDE SLICE, COMPOUND ANGLE

SIZE A | DWG. NO. RPT2002 | REV. A

SCALE : X/X | FILE: | SHEET 1 OF 2



DERIVING THE FORMULA:

TAN C° = TAN A° * COS B°

1. Sketch a plane parallel to base as shown by red construct lines.
2. Label each line segment appropriately.
3. Common sides must be used to solve to find angle C.

COS B° = d/a
TAN A° = b/d

TAN C° = b/a

$$\text{TAN C} = \frac{\text{TAN A*d}}{\text{d/COS B}} = \text{TAN A * COS B}$$

	A		Initial Release	NWE	4/15/15	
PART #	REV #	ECN	CHANGE DESCRIPTION	REV. BY	ECN DATE	CHECKED

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES FOR BOTH SYSTEMS ARE:

ENGLISH:		METRIC:	
FRACTIONS	DECIMALS	DECIMALS	ALL ANGLES
± 1/32	.XX ± .01 .XXX ± .002 .XXXX ± .0002	X.X ± 0.1 X.XX ± 0.01	.X ± .1° .XX ± .05°

MATERIAL XXXXX

FINISH 32

DRAWN BY NWE

DATE XX/XX/2015

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DATE

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1822 Washington Street
Huntingdon, PA 16652

SIDE SLICE, COMPOUND ANGLE

SIZE A | DWG. NO. RPT2002 | REV. A

SCALE : X/X | FILE: | SHEET 2 OF 2