

THINKING ABOUT MULTI AXIS SPINDLES

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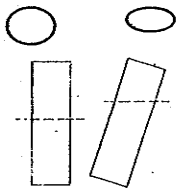
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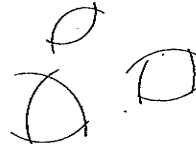
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TYPES OF RESULTS OR OUTCOMES:



CROSS SECTION OF TWO CYLINDERS
THE NEW AXES HAVE BEEN FULLY TURNED
TO CREATE A ROUND SHAPE

CIRCULAR TYPE



CROSS SECTION OF THREE CYLINDERS
THE NEW AXES HAVE BEEN PARTIALLY
TURNED CREATING A LENS OR ARC

ARC TYPE

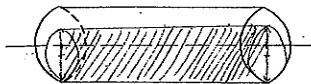
VARIABLES:

1 PLACEMENT OF AXES

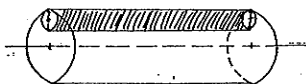
2 PROFILES OR SHAPES TURNED

VARIATIONS OF VARRIABLES:

PARALLEL AXES:

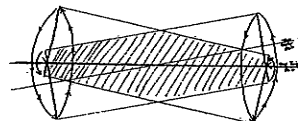


NEW AXIS CLOSER TO CENTER OF SPINDLE



NEW AXIS CLOSER TO OUTSIDE OF SPINDLE

TWISTED AXES: TWISTED AXIS: RED=CENTER AXIS
BLUE=NEW AXIS



TWISTED AXIS, ONE END MOVED

SYMMETRY OF LINES AND CURVES:

