

FIG. 6.—ORDER OF DRAWING THE LINES TO REPRESENT A V THREAD.

V outline of the threads, as in Fig. 50. The method of doing this is shown in Fig. 51. The centre line 1 and lines 2 and 3 for the full diameter of the thread being drawn, set the compasses to the required pitch of the thread, and stepping along line 2 mark the arcs 3, 4, 5, 6, 7, etc., for the full length the thread is to be marked. With the triangle resting against the T-square, the lines 7, 8, 9, etc. (for the full length of the thread), are drawn from the points 3, 4, 5, 6, on line 1. These give one side of the

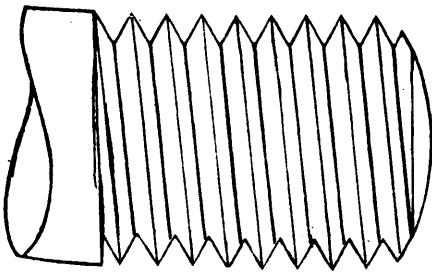


FIG. 7.—ANGLE OF TOP ON BOTTOM.

thread. Reversing the drawing triangle, angles 10, 11, 12, etc., are then drawn, which will complete the outline of the thread at the top of the bolt. We may now mark the depth of the thread by drawing line 13, and with the compasses set on the centre line transfer this depth to the other side of the bolt, as denoted by the arcs 14 and 15. Touching line 15 we mark line 16 for the thread depth on that side. We have now to get the slant of the thread

across the bolt. It is obvious that in passing once around the bolt the thread advances to the amount of the pitch

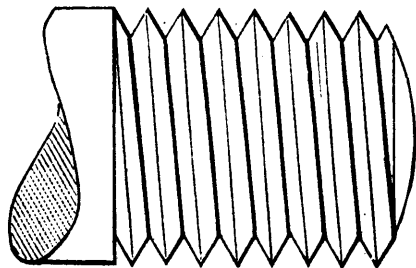


FIG. 8.—USE OF SHADE LINES.

as from *a* to *b*; hence, in passing half way around, it will advance from *a* to *c*, we therefore draw line 16 at a right angle to the centre line and a line that touches the top of the threads at *a*, where it meets line 2, and also meets line 16, where it touches line 3, as the angle or slope for the tops of the threads, which may be drawn across by lines, as 18, 19, 20, etc. From these lines the sides of the thread may be drawn at the bottom of the bolt, marking first the angle on one side, as by lines 21, 22, 23, etc., and then the angles on the other, as by lines 24, 25, etc.

There now remains the bottoms of the thread to draw and this is done by drawing lines from the bottom of the thread on one side of the bolt to the bottom on the other as shown in the cut by a dotted line, hence we may set a square blade to that angle, and mark in these lines, as 26, 27, 28, etc., and the thread is penciled in complete.